

STATE OF NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF ENERGY, MINERAL, AND LAND RESOURCES

GENERAL PERMIT NO. NCG020000

TO DISCHARGE STORMWATER, MINE DEWATERING, AND PROCESS WASTEWATER UNDER THE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provision of North Carolina General Statute 143-215.1, other lawful standards and regulations promulgated and adopted by the North Carolina Environmental Management Commission and the Federal Water Pollution Control Act, as amended, this permit is hereby issued to all owners or operators, hereafter permittees, which are covered by this permit as evidenced by receipt of a Certificate of Coverage by the Environmental Management Commission to allow the **discharge of stormwater, mine dewatering wastewater, and process wastewater to the surface waters of North Carolina** or to a separate storm sewer system conveying discharges to surface waters, **from active and inactive mining sites**, in accordance with the terms and conditions set forth herein.

Coverage under this General Permit is applicable to:

- ◆ ***Stormwater* point source discharges associated with mining and quarrying of non-metallic minerals (except fuels), mine excavation, processing, and vehicle maintenance;**
- ◆ ***Authorized wastewater* point source discharges from mining operations;**
- ◆ ***Operation* of wastewater treatment systems;**
- ◆ ***Stormwater and/or wastewater* point source discharges from like industrial activities deemed by The Division of Energy, Mineral, and Land Resources (DEMLR) to be similar to these operations in the process, or the discharges, or the exposure of raw materials, intermediate products, by-products, final products, or waste products.**

Coverage under this General Permit is not applicable to:

- ◆ **Borrow Pits covered by the DOT statewide stormwater permit,**
- ◆ **Peat Mining,**
- ◆ **Coal Mining,**
- ◆ **Metal Mining,**
- ◆ **Oil and Gas Extraction Operations, and**
- ◆ **Wastewater not specifically designated in this permit.**

The General Permit shall become effective on October 1, 2015.

The General Permit shall expire at midnight on September 30, 2020.

Signed this 30th day of September, 2015.

Original signed by Tracy E. Davis

Tracy E. Davis, P.E., CPM, Director

Division of Energy, Mineral, and Land Resources

By the Authority of the Environmental Management Commission

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PART I – INTRODUCTION

SECTION A: GENERAL PERMIT COVERAGE

All persons desiring to have facilities covered by this General Permit must register with the Division of Energy, Mineral, and Land Resources (DEMLR) by the filing of a Notice of Intent (NOI) and applicable fees. The NOI shall be submitted and a certificate of coverage issued prior to any discharge of stormwater associated with industrial activity, mine dewatering wastewater, or authorized process wastewater that has a point source discharge to the surface waters of the state.

This General Permit is applicable to mining and quarrying of nonmetallic minerals (except fuels) including borrow pits (that would not be covered under the statewide DOT stormwater permit) and **active or inactive mines** that discharge *stormwater* contaminated with, or that has come in contact with, any overburden, raw material, intermediate products, finished products, byproducts or waste products located at the site of such operations and stormwater runoff from vehicle maintenance areas. This General Permit also covers discharge of *wastewater* from processing mined materials and mine dewatering wastewater from the groundwater and/or stormwater that accumulates in the mine pit.

Any owner or operator not wishing to be covered or limited by this General Permit may make application for an individual NPDES permit in accordance with NPDES procedures in 15A NCAC 2H .0100, stating the reasons supporting the request. Any application for an individual permit should be made at least 180 days prior to commencement of discharge.

This General Permit does not cover activities or discharges covered by an individual NPDES permit until the individual permit has expired or has been revoked. Any person conducting an activity covered by an individual permit but which could be covered by this General Permit may request that the individual permit be revoked and coverage under this General Permit be provided.

Any facility may apply for new or continued coverage under this permit until a Total Maximum Daily Load (TMDL) for pollutants for stormwater or wastewater discharges is established. A TMDL sets a pollutant-loading limit that affects a watershed, or portion of a watershed, draining to an impaired water. **For discharges to watersheds affected by a TMDL, coverage under this permit may depend on the facility demonstrating it does not have reasonable potential to violate applicable water quality standards for those pollutants as a result of discharges.** If the Division determines that discharges have reasonable potential to cause water quality standard violations, the facility shall apply for an individual permit 180 days prior to the expiration date of this General Permit. Once that individual permit is effective, the facility will no longer have coverage under this General Permit. [Note the permittee must identify impaired waters (scheduled for TMDL development) and waters already subject to a TMDL in the Location Map or Site Map, as outlined in the Stormwater Pollution Prevention Plan (SPPP), Part III. A list of approved TMDLs for the state of North Carolina can be found at <http://portal.ncdenr.org/web/wq/ps/mtu/tmdl>.]

SECTION B: PERMITTED ACTIVITIES

Until this permit expires or is modified or revoked, the permittee is authorized to discharge stormwater, mine dewatering, and process wastewater to the surface waters of North Carolina or a separate storm sewer system which has been treated and managed in accordance with the terms and conditions of this General Permit and the requirements of the permittee's Certificate of Coverage (COC).

The permittee's COC is hereby incorporated by reference into this General Permit. Any violation of the COC is a violation of this General Permit and subject to enforcement action as provided in the General Permit.

Any other point source discharge to surface waters of the state is prohibited unless it is an allowable non-stormwater discharge or is covered by another permit, authorization, or approval.

The discharges allowed by this General Permit shall not cause or contribute to violations of Water Quality Standards. Discharges allowed by this permit must meet applicable wetland standards as outlined in 15A NCAC 2B .0230 and .0231 and water quality certification requirements as outlined in 15A NCAC 2H .0500.

If mining activities will expand or change such that the types of discharges are affected, the permittee must first contact DEMLR's Stormwater Permitting Program to determine if modifications to the COC are necessary. The permittee is also responsible for contacting DEMLR if modifications to the Mining Permit are necessary, as compliance with the Mining Permit is a stipulation of this permit.

This permit does not relieve the permittee's responsibility for compliance with any other applicable federal, state or local law, rule, standard, ordinance, order or decree.

PART II –OPERATION OF A TREATMENT FACILITY

Mining operations involving construction and operation of existing, new, and expanding **wastewater treatment facilities** for mine dewatering or process wastewater (such as saw water, wash water, etc.) shall be subject to the following operational requirements.

1. Operation and maintenance of treatment facilities must be in accordance with the requirements in this General Permit. For the purposes of this permit no documentation other than a signed Certificate of Coverage (COC) is required to operate a treatment facility.
2. Diversion or bypass of untreated wastewater from a treatment facility is prohibited except under provisions of this permit in Part V, Section C.4 and Part V, Section E.8.
3. In the event that a facility fails to perform satisfactorily, including the creation of nuisance conditions, the permittee shall take immediate corrective action, including those actions that may be required by the North Carolina Department of Environmental Quality (NC DEQ, formerly NC DENR), such as the construction of additional or replacement treatment or disposal facilities.
4. The issuance of this permit shall not relieve the permittee of the responsibility for damages to surface waters of the State resulting from the operation of a treatment facility.
5. Any discharge from a treatment system to groundwater must protect the groundwater standards specified in 15A NCAC 2L, Groundwater Classification and Standards.
6. Any groundwater quality monitoring, as deemed reasonably necessary by NC DEQ, shall be provided.
7. Flocculants evaluated by NC DEQ may be used if administered in accordance with maximum application doses and any other current requirements. No other chemical flocculants shall be used in the treatment facility without written authorization from the Division. Evaluated Polyacrylamide (PAMS) information can be found on the Stormwater Permitting Program website.
8. All discharges of mine dewatering wastewater and process wastewater will be monitored in accordance with Part IV, Section D of this permit.

PART III – STORMWATER POLLUTION AND PREVENTION PLAN (SPPP)

The permittee shall **develop and implement** a Stormwater Pollution Prevention Plan (SPPP). The SPPP shall be maintained on site unless exempted from this requirement by the Division. The SPPP shall be considered public information in accordance with Part V, Standard Conditions for NPDES General Permits, Section E, Paragraph 3 of this General Permit. The SPPP shall include, at a minimum, the following items:

1. **Site Overview.** The Site Overview shall provide a description of the physical facility and the potential pollutant sources that may be expected to contribute to contamination of stormwater discharges. The Site Overview shall contain the following:
 - (a) A general **location map** (USGS quadrangle map or appropriately drafted equivalent map), showing the facility's location in relation to transportation routes and surface waters; the name of the receiving water(s) to which the stormwater outfall(s) discharges, or if the discharge is to a municipal separate storm sewer system, the name of the municipality and the ultimate receiving waters; and latitude and longitude of the point(s) of stormwater discharge associated with industrial activity. The general location map (or alternatively the site map) shall identify whether each receiving water is **impaired** (on the state's 303(d) list of impaired waters) or if the site is located in a **watershed for which a TMDL has been established**, and what the parameter(s) of concern are.
 - (b) A **narrative description** of storage practices, loading and unloading activities, outdoor process areas, dust or particulate generating or control processes, and waste disposal practices. A **narrative description** of the potential pollutants that could be expected to be present in the stormwater discharge from each outfall.
 - (c) A **site map** drawn at a scale sufficient to clearly depict: the site property boundary; the stormwater discharge outfalls and wastewater discharge outfalls; all on-site and adjacent surface waters and wetlands; industrial activity areas (including storage of materials, disposal areas, process areas, loading and unloading areas, and haul roads); site topography; all drainage features and structures; drainage area boundaries and total contributing area for each outfall; direction of flow in each drainage area; industrial activities occurring in each drainage area; buildings; stormwater Best Management Practices (BMPs) with design capacities; and permanent impervious surfaces, such as roads or process areas that are unlikely to change frequently. The site map shall include a graphic scale indication and north arrow. In addition, the following industrial activity areas must also be identified on the site map: fueling, vehicle maintenance and repair, washing of materials or equipment.
 - (d) A **list of significant spills or leaks** of pollutants that have occurred during the previous three (3) years and any corrective actions taken to mitigate spill impacts.
 - (e) Certification that the stormwater outfalls have been evaluated for the presence of non-stormwater discharges. **The permittee shall re-certify annually that the stormwater outfalls have been evaluated for the presence of non-stormwater discharges.** *If non-stormwater discharges are present, the permittee shall identify the source and record whether the discharge is otherwise permitted (by rule or a different permit). The permittee shall evaluate the environmental significance of the non-stormwater discharges and include a summary written record with the certification.*

The certification statement and summary written record shall be retained with the SPPP, and shall be dated and signed in accordance with the requirements found in Part V, Standard Conditions for NPDES General Permits, Section B, Paragraph 5.

2. **Erosion and Sedimentation Control.** The permittee shall implement the management practices and the erosion and sedimentation control measures that are included in the mining permit or erosion and sedimentation control permit issued by the Division of Energy, Mineral, and Land Resources (DEMLR). **Compliance with the DEMLR issued Mining Permit is considered a requirement of this General Permit.** Any deviation from the Mining Permit and/or Erosion and Sedimentation Control Permit, or amendments to the issued permit, that impacts water quality shall constitute a violation of the terms and conditions of this General Permit. All erosion and sediment controls shall be inspected, and a respective **written record** of repairs and maintenance shall be available to DEMLR inspectors. **A signed copy of the issued Mining Permit, including the approved erosion and sedimentation control measures and the reclamation plan, shall be maintained on the site at all times.** Once an area is released by DEMLR in accordance with NC G.S. Chapter 74, Article 7, it shall no longer be subject to this General Permit.

3. **Stormwater Management Strategy.** The Stormwater Management Strategy shall contain a narrative description of the materials management practices employed which control or minimize the exposure of significant materials to stormwater and the transport of significant materials by stormwater, including structural and nonstructural measures. The Stormwater Management Strategy, at a minimum, shall incorporate the following:
 - (a) **Management of Stormwater Runoff and Runon.** The permittee shall maintain stormwater BMPs for mine excavation and disturbance areas, process areas, and any other areas associated with mining or vehicle maintenance activities. In addition, controls should be used to limit or isolate selected land disturbance and process areas and limit the amount of off-site stormwater runon to those areas. Appropriate Best Management Practices (BMPs) should be used to divert, infiltrate, reuse or otherwise manage stormwater runoff and runon in a manner that reduces pollutants in stormwater discharges leaving the site. Appropriate BMPs may include but are not limited to: vegetative swales, berms, use of reclaimed mine areas, and reuse of collected stormwater (such as for an industrial process or as an irrigation source).

 - (b) **BMP Controls Inspection and Maintenance.** BMPs shall be inspected by or under the direction of the permittee at least **once every seven calendar days**, unless the site is inactive. All inspections and BMP repairs shall be **documented** by written record.

Reduced BMP Inspections for inactive mines: **Dormant Site Status** is available for **inactive mines that have suspended all industrial activities**, and if the permittee has certified to DEMLR's Stormwater Permitting Program that all portions of the site where clearing, grading, and/or excavation activities have occurred have been stabilized with vegetation. **Under dormant status** the permittee may conduct BMP inspections **once a month**. The permittee shall send written certification to the DEMLR Regional Office that the site is inactive, and the Regional Office may grant reduced BMP inspection frequency on the basis of the permittee's certification. The permitted site may be subject to an inspection for verification. *The DEMLR Regional Office will provide confirmation of dormant status and expected BMP inspection frequency in writing to the permittee.*

In addition, **also under dormant status but only upon a favorable site inspection by the Regional Office**, the Regional Office Engineer may exempt the permittee from weekly and monthly BMP inspections in writing if stormwater structural BMPs have been removed and the Regional Office determines that structural BMPs are not necessary because of sufficient site stabilization. However, **the permittee must still perform an annual inspection as part of the SPPP Annual Update** outlined in 8. of this section. In either case, the permittee shall notify the Regional Office prior to resuming industrial activities at an inactive mine.

A rain gauge and monitoring records are to be kept on site. BMPs shall be operated and maintained. BMPs must be **cleaned out when sediment storage capacity is at 50 percent of the design sediment volume**. If visible sedimentation is leaving the property, corrective action shall be taken to reduce the discharge of sediments. Visible sedimentation shall be recorded with a brief explanation of measures taken to prevent future releases, as well as any measures taken to remove the sediment that has left the site. Visible sedimentation records shall be kept onsite. All other stormwater specific controls (e.g. oil/water separators) shall be inspected and qualitatively monitored (as per Part IV. C) on a semi-annual schedule. A log of all sampling data, including activities taken to implement BMPs associated with vehicle maintenance activities, shall be maintained and incorporated into the SPPP and kept onsite and available for inspection purposes. These items shall be available for the duration of the permit term and made available to the Director upon request. These data shall be sent to the Regional Office upon request.

- (c) **Secondary Containment Requirements and Records.** Secondary containment is required for: bulk storage of liquid materials including petroleum products; storage in any amount of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) water priority chemicals; and storage in any amount of hazardous substances, in order to prevent leaks and spills from contaminating stormwater runoff. A table or summary of all such tanks and stored materials and their associated secondary containment areas shall be maintained. If the secondary containment devices are connected to stormwater conveyance systems, the connection shall be controlled by manually activated valves or other similar devices, which shall be secured closed with a locking mechanism. Any stormwater that accumulates in the containment area shall be at a minimum visually observed for color, foam, outfall staining, visible sheens, and dry weather flow, prior to release of the accumulated stormwater. Accumulated stormwater shall be released if found to be uncontaminated by any material. Records documenting the individual making the observation, the description of the accumulated stormwater, and the date and time of the release shall be kept for a period of five (5) years. For the purposes of effective stormwater pollution prevention, the SPPP is intended to be broader and more comprehensive than a federal oil Spill Prevention, Control, and Countermeasure Plan (SPCC). For facilities subject to a federal SPCC Plan, any portion of the SPCC Plan fully compliant with the requirements of this permit may be used to demonstrate compliance with this permit.

4. **Spill Prevention and Response Procedures.** The Spill Prevention and Response Procedures (SPRP) shall incorporate an assessment of potential pollutant sources based on a materials inventory of the facility. Facility personnel (or the team) responsible for implementing the SPRP shall be identified in a written list incorporated into the SPRP and signed and dated by each individual acknowledging their responsibilities for the

procedures. A responsible person shall be on-site at all times during facility operations that have increased potential to contaminate stormwater runoff through spills or exposure of materials associated with the facility operations. The SPRP must be site stormwater specific. Therefore, an oil Spill Prevention Control and Countermeasure Plan (SPCC) may be a component of the SPRP, but may not be sufficient to completely address the stormwater aspects of the SPRP. The common elements of the SPCC with the SPRP may be incorporated by reference into the SPRP.

5. **Preventative Maintenance and Good Housekeeping Program.** A preventative maintenance and good housekeeping program shall be developed and implemented. The program shall ensure equipment used during mining activity on a site must be operated and maintained to prevent potential pollution of the surface water or groundwaters of the state. Fuels, lubricants, coolants, hydraulic fluids, or any other petroleum products shall not be discharged on the ground or into surface waters. Spent lubricants and fuels shall be disposed of properly and in accordance with applicable federal disposal regulations. Spilled fluids shall be cleaned up to the maximum extent practicable and properly disposed of to prevent entry to surface waters or groundwaters of the state. The program shall establish schedules of inspections, maintenance, and housekeeping measures for vehicle maintenance and industrial activity areas (including material storage and handling areas, disposal areas, process areas, loading and unloading areas, and haul roads), where not already addressed under another element of the SPPP. Timely compliance with the established schedules for inspections, maintenance, and housekeeping shall be recorded and maintained in the SPPP.
6. **Employee Training.** Training programs shall be developed and training provided at a minimum on an annual basis for facility personnel with responsibilities for: spill response and cleanup, preventative maintenance activities, and for any of the facility's operations that have the potential to contaminate stormwater runoff. Additional required training items include: used oil management, spent solvent management, and fueling procedures. The annual training shall be documented by the signature and printed or typed name of each employee trained.
7. **Responsible Party.** The SPPP shall identify a specific position(s) responsible for the overall coordination, development, implementation, and revision to the SPPP. Responsibilities for all components of the SPPP shall be documented and position assignments provided.
8. **SPPP Amendment and Annual Update.** All aspects of the SPPP shall be reviewed and updated on an annual basis. The permittee shall amend the SPPP whenever there is a change in design, construction, operation, site drainage, maintenance, or configuration of the physical features which may have a significant effect on the potential for the discharge of pollutants to surface waters. The annual update shall include at a minimum:
 - (a) an *updated list of significant spills or leaks* of pollutants for the previous three (3) years, or the notation that no spills have occurred (element of the **Site Overview**);
 - (b) a written *re-certification that the stormwater outfalls have been evaluated for the presence of non-stormwater discharges* (element of the **Site Overview**);
 - (c) a documented re-evaluation of the effectiveness of the on-site stormwater BMPs;
 - (d) a *review and comparison of sample analytical data* to benchmark values (if applicable) over the past year, including a discussion about Tiered Response status. The permittee shall use the Division's Annual Summary Data Monitoring Report (DMR)

form, available from the Stormwater Permitting Program's website (See 'Monitoring Forms' here: <http://portal.ncdenr.org/web/lr/npdes-stormwater>).

- (e) *a comparison of the permittee's estimate or record of the past year's average daily and maximum daily wastewater flow rates with the permittee's estimate of the coming year's average daily and maximum daily wastewater flow rates, taking into account any changes in the mine footprint or operational procedures anticipated in the coming year. For any **anticipated increased wastewater discharges into receiving waters classified as HQW or ORW**, the permittee shall compare the estimated increased discharge flow rates to 50 percent of the receiving water 7Q10. (See Table 8, Footnote 7.)*

The Director may notify the permittee when the SPPP does not meet one or more of the minimum requirements of the permit. Within 30 days of such notice, the permittee shall submit a time schedule to the Director for modifying the SPPP to meet minimum requirements. The permittee shall provide certification in writing (in accordance with Part V, Section B, Paragraph 5) to the Director that the changes have been made.

9. **SPPP Implementation.** The permittee shall implement the Stormwater Pollution Prevention Plan and all appropriate BMPs consistent with the provisions of this permit, in order to control contaminants entering surface waters via stormwater that comes in contact with any overburden that is not stabilized, raw materials, intermediate products, finished products, byproducts or waste products located on the site covered by this permit.

Implementation of the SPPP shall include documentation of all monitoring, measurements, inspections, maintenance activities, and training provided to employees, including the log of the sampling data and of actions taken to implement BMPs associated with the industrial activities, including vehicle maintenance activities. Such documentation shall be kept on-site for a period of five (5) years and made available to the Director or the Director's authorized representative immediately upon request.

PART IV – MONITORING, CONTROLS, AND LIMITATIONS FOR PERMITTED DISCHARGES

SECTION A: STORMWATER DISCHARGES – ANALYTICAL MONITORING REQUIREMENTS

Regulated industrial stormwater discharges are discharges of **stormwater-only flows from mining activity areas**, including (but not limited to) areas of mine excavation, other land disturbance, process areas, and vehicle maintenance. **This section does not apply to wastewater discharges from mine dewatering and process areas.** Analytical monitoring for stormwater discharges shall be performed for parameters as specified in **Tables 1 through 3.**

Monitoring Exemption

Analytical monitoring is not required for any basin or pond designed to contain the 25-year, 24-hour storm (see Part VI, Definitions) without discharging, and that can regain capacity to hold such an event within five (5) days' time through means other than discharge to surface waters. A basin or pond that meets this provision is considered a non-discharging stormwater control measure.

All analytical monitoring shall be performed during a **measurable storm event** at each stormwater discharge outfall (SDO). Only SDOs discharging *stormwater associated with industrial activity* must be sampled (See Definitions).

A **measurable storm event** for the purposes of this General Permit is a storm event that results in an **actual discharge** from the permitted site outfall. The time between this storm event and the previous measureable storm event must be **at least 48 hours**. *See Definitions.*

Table 1 Analytical Monitoring Requirements for Stormwater Discharges from Mining Activities

Discharge Characteristics	Units	Measurement Frequency ¹	Sample Type ²	Sample Location ³
Settleable Solids	ml/l	Semi-annual	Grab	SDO
Total Suspended Solids	mg/l	Semi-annual	Grab	SDO
Turbidity ⁴	NTU	Semi-annual	Grab	SDO, U & D ⁴
Total Rainfall ⁵	inches	Semi-annual	--	--

Footnotes:

1. Measurement Frequency: Twice per year (unless other provisions of this permit require monthly sampling) during a **measureable storm event**, until either another permit is issued for this facility or until this permit is revoked or rescinded. If the facility is monitoring monthly because of Tier Two or Three response actions under the *previous* General Permit, the facility shall continue a monthly monitoring and reporting schedule in Tier Two or Tier Three status until relieved by the provisions of this permit or the Division.
2. Grab samples shall be collected within the first 30 minutes of discharge. Where physical separation between outfalls prevents collecting all samples within the first 30 minutes, the permittee shall begin sampling within the first 30 minutes, and shall continue until completed.
3. Sample Location: Samples shall be collected at each stormwater discharge outfall (SDO) unless representative outfall status (ROS) has been granted. A copy of the Division's letter granting ROS shall be kept on site with the SPPP.
4. Turbidity must be monitored at the stormwater discharge outfall (SDO). In addition to the SDO, the permittee may elect to also monitor turbidity in the receiving water, directly upstream (U) and

downstream (D) of the stormwater discharge outfall or group of outfalls to demonstrate the discharge has not caused a water quality standard violation of turbidity. If SDO turbidity level exceeds the benchmark, and the permittee cannot demonstrate the discharge has not caused a violation of the instream water quality standard, **the Division may require the permittee to monitor turbidity up- and downstream** as part of a Tier 2 or 3 response.

5. For each sampled measureable storm event the total precipitation must be recorded. An on-site rain gauge or local rain gauge reading must be recorded.

The permittee shall complete the analytical samplings in accordance with the schedule specified in **Table 2**. Sampling is not required outside of the facility's normal operating hours (unless the mine is inactive). **A minimum of 60 days must separate Period 1 and Period 2 sample dates**, unless monthly monitoring has been instituted under other requirements of this permit.

Table 2 Monitoring Schedule

Semi-annual Monitoring Events^{1,2}	Start Date (All Years)³	End Date (All Years)³
Period 1	January 1	June 30
Period 2	July 1	December 31

Footnotes:

1. Maintain semi-annual monitoring during permit renewal process (unless other provisions of this permit require monthly sampling). If at the expiration of the General Permit, the permittee has submitted an application for renewal of coverage before the submittal deadline, the permittee will be considered for renewed coverage. The applicant must continue monitoring until the renewed Certificate of Coverage (COC) is issued.
2. If no discharge occurs during the sampling period, the permittee must record "No Flow" or "No Discharge" within 30 days of the end of the sampling period in the facility's monitoring records. "No Flow" or "No Discharge" shall be reported on the Annual Summary Discharge Monitoring Report (DMR) due by March 1.
3. Monitoring periods remain constant throughout the five-year term of the General Permit. For permittees continuing with renewed coverage under this General Permit, Year 1 begins in Period 2 on **October 1, 2015**, and for all permittees Year 5 - Period 2 ends on **September 30, 2020**.

In all cases, the permittee shall report the analytical results from each sample within the monitoring period (as specified in Part V, Standard Conditions, Section E) once a year (by March 1). The permittee shall compare those results to the benchmark values in **Table 3**. Exceedances of benchmark values require the permittee to increase monitoring, increase management actions, increase record keeping, and/or install stormwater Best Management Practices (BMPs) in a tiered program. **Sample results that exceed benchmark values must be submitted no later than 30 days from the date the facility receives the sampling results** (see Part V, Section E). *Note that Tier 1 and Tier 2 responses for turbidity benchmark exceedances are specifically outlined below Table 3 and differ from the Tier structure on page 4 of Part IV.*

Table 3 Benchmark Values for Stormwater Discharges

Discharge Characteristics	Benchmark Values
Settleable Solids	0.1 ml/l
Total Suspended Solids (TSS)	100 mg/l
TSS (ORW, HQW, trout, and PNA waters)	50 mg/l
Turbidity	50 NTU (See below)
Turbidity (lakes, reservoirs, salt waters)	25 NTU (See below)
Turbidity (freshwater streams, lakes, reservoirs designated as trout waters)	10 NTU (See below)

The discharge shall not cause the turbidity of the receiving water to exceed Water Quality Standards:

- 10 NTU** (freshwater streams, lakes, and reservoirs designated as trout waters);
- 25 NTU** (all lakes and reservoirs, and all salt waters);
- 50 NTU** (all other streams and surface waters).

If turbidity of the *receiving stream* exceeds these levels due to natural background conditions, the existing turbidity level shall not be increased as a result of the stormwater discharges.

The benchmark values in **Table 3** are not enforceable permit limits. An exceedance of a stormwater benchmark value is not a permit violation; however, failure to respond to the exceedances as outlined in this permit is a violation of permit conditions. The benchmarks are intended to reduce polluted discharges by triggering the permittee's required response actions under Tiers One, Two, and Three. See below the descriptions of Tiers One, Two, and Three response actions (Standard "Tier Three" also applies to turbidity).

Tier One Response for Turbidity

If the first valid sampling result required for the monitoring period is above the turbidity benchmark at any outfall, and the permittee cannot demonstrate the discharge has not caused or contributed to a Water Quality Standard violation with up- and downstream sampling results, **then the permittee shall:**

1. Identify and evaluate possible causes of the benchmark exceedance **within one week** of receiving sample results.
2. Identify and implement feasible actions to improve turbidity levels in the discharge **within one month**.
3. Record each instance of a Tier One response for turbidity in the SPPP.

Tier Two Response for Turbidity

If the first valid sampling results required from two consecutive monitoring periods (omitting periods with no discharge) are above the turbidity benchmark at any specific outfall, and the permittee cannot demonstrate the discharge has not caused or contributed to a Water Quality Standard violation with up- and downstream sampling results, **then the permittee shall:**

1. Repeat all the required actions outlined above in Tier One.
2. Contact the DEMLR Regional Office Engineer as provided below in Tier Three. The Regional Office Engineer may direct the response actions on the part of the permittee as provided in Tier Three, including requiring the permittee to sample up- and downstream of the SDO or group of SDOs. The Regional Office may work with the permittee to designate appropriate instream sampling points and document that determination. The permittee will be considered to be obligated under the Tier Three provisions.
3. Record each instance of a Tier Two response for turbidity in the SPPP.

Tier One

If: The first valid sampling results required for the monitoring period are above a benchmark value for any parameter **except turbidity** at any outfall,

Then: The permittee shall:

1. Conduct a stormwater management inspection **within two weeks of receiving the sample results**.
2. Identify and evaluate possible causes of the benchmark value exceedance.
3. Identify potential, and select the specific feasible: source controls, operational controls, or physical improvements to reduce concentrations of the parameters of concern.
4. Implement the selected feasible actions **within two months of the inspection**.
5. Record each instance of a Tier One response in the SPPP. Include the date and value of the benchmark exceedance, the inspection date, the personnel conducting the inspection, the selected feasible actions, and the date the selected feasible actions were implemented.
6. Note: Exceedances for a different parameter separately trigger the tiered response requirements.

Tier Two

If: The first valid sampling results from two consecutive monitoring periods (omitting periods with no discharge) are above the benchmark values for any specific parameter **except turbidity** at a specific discharge outfall,

Then: The permittee shall:

1. Repeat all the required actions outlined above in Tier One.
2. Immediately institute monthly monitoring and monthly reporting for all parameters (**including turbidity**) at every outfall where a sampling result exceeded the benchmark value for two consecutive samples. Monthly (analytical and qualitative) monitoring shall continue until three consecutive sample results are below the benchmark values.
3. If no discharge occurs during the sampling period, the permittee is required to submit a monthly monitoring report indicating "No Flow" to comply with reporting requirements.
4. *Alternatively*, in lieu of steps 2 and 3, the permittee may exercise the option of contacting the DEMLR Regional Office Engineer as provided below in Tier Three. The Regional Office Engineer may direct the response actions on the part of the permittee as provided in Tier Three. The permittee will be considered to be obligated under the Tier Three provisions.
5. Maintain a record of the Tier Two response in the SPPP.
6. Continue Tier Two response obligations throughout the permit COC renewal process.

Tier Three

If the valid sampling results required for the permit monitoring periods exceed the benchmark value for any specific parameter (**including turbidity**) at any specific outfall on **four occasions**, the permittee shall notify the DEMLR Regional Office Engineer in writing **within 30 days of receipt** of the fourth analytical results. **DEMLR may but is not limited to:**

- require the permittee to revise, increase, or decrease the monitoring and reporting frequency for some or all parameters, including requiring sampling of additional or substitute parameters;
- rescind coverage under the General Permit, and require that the permittee apply for an individual stormwater discharge permit;
- require the permittee to install structural stormwater controls;
- require the permittee to implement other stormwater control measures;
- require the permittee to perform upstream and downstream monitoring to characterize impacts on receiving waters; or
- require the permittee to continue Tier Three obligations through the permit COC renewal process.

Failure to monitor and report per the permit terms may result in the Division requiring monthly monitoring and reporting for all parameters for a specified time period. Lack of a discharge from an outfall for the monitoring period, or inability to collect a sample because of *adverse weather* conditions during a monitoring period will not constitute failure to monitor, as long as those conditions are reported on the monitoring period DMR and noted in the SPPP. (See *Adverse Weather* in Definitions.) Similarly, sampling is not required outside of the facility's normal operating hours (unless the mine is inactive).

Reduced monitoring for inactive mines: **Dormant Site Status** is available for inactive mine sites that have suspended all industrial activities, and if the permittee has certified in writing to DEMLR's Stormwater Permitting Program that all portions of the site with clearing, grading, and/or excavation activities have been stabilized with vegetation. Upon a favorable site inspection by the Regional Office, the Regional Office Engineer may exempt the permittee from stormwater analytical monitoring, stormwater qualitative monitoring, and wastewater monitoring. The DEMLR letter granting **dormant status** must be kept with the SPPP, and available for inspection within a reasonable time of the Division's request.

In the event that the Division releases the permittee from continued monthly monitoring and reporting under Tier Two or Tier Three, DEMLR's release letter may remain in effect through subsequent reissuance of this permit, unless the release letter provides for other conditions or duration.

The permittee **must report all results from all valid discharge samples** taken during each monitoring period. However, for purposes of benchmark comparison and Tiered response actions, the permittee shall use the analytical results from **the first sample with valid results** within the monitoring period.

SECTION B: STORMWATER DISCHARGES – ON-SITE VEHICLE MAINTENANCE MONITORING REQUIREMENTS

Facilities that have any on-site vehicle maintenance activity that uses **more than 55 gallons of new motor oil per month when averaged over the calendar year** shall perform analytical monitoring as specified below in **Table 4** and in accordance with the schedule presented in **Table 2** (Section A). Sampling results shall be reported as described in Part V, Section E. All analytical monitoring shall be performed during a **measurable storm event** at all stormwater discharge outfalls (SDOs) that discharge *stormwater runoff from vehicle maintenance areas*.

Table 4 Analytical Monitoring Requirements from On-Site Vehicle Maintenance Areas

Discharge Characteristics	Units	Measurement Frequency¹	Sample Type²	Sample Location³
Total Suspended Solids (TSS)	mg/l	Semi-annual	Grab	SDO
Non-Polar Oil & Grease <i>by EPA Method 1664 (SGT-HEM)</i>	mg/l	Semi-annual	Grab	SDO
Total Rainfall ⁴	inches	Semi-annual	Grab	--
New Motor Oil Usage	gallons/month	Semi-annual	Estimate	--

Footnotes:

1. Measurement Frequency: Twice per year (unless other provisions of this permit require monthly sampling) during a **measureable storm event** (See **Table 2**), until either another permit is issued for this facility or until this permit is revoked or rescinded. If the facility is monitoring monthly because of Tier Two or Three response actions under the previous General Permit, the facility shall continue a monthly monitoring and reporting schedule in Tier Two or Tier Three status until relieved by the provisions of this permit or the Division.
2. Grab samples shall be collected within the first 30 minutes of discharge. Where physical separation between outfalls prevents collecting all samples within the first 30 minutes, the permittee shall begin sampling within the first 30 minutes, and shall continue until completed.
3. Sample Location: Samples shall be collected at each **vehicle maintenance area** stormwater discharge outfall (SDO), unless representative outfall status (ROS) has been granted. A copy of the Division's letter granting ROS shall be kept on site with the SPPP.
4. For each sampled **measureable storm event**, an on-site or local rain gauge reading must be recorded. Where isolated sites are unmanned for extended periods of time, a local rain gauge reading may be substituted for an on-site reading.

The permittee shall complete the analytical samplings in accordance with the schedule specified in **Table 2**. A minimum of 60 days must separate Period 1 and Period 2 sample dates unless monthly monitoring has been instituted under other requirements of this permit.

In all cases, the permittee shall report the analytical results from each sample within the monitoring period (as required in Part V, Standard Conditions, Section E.) once a year (by March 1). The permittee shall compare those results to the benchmark values in **Table 5**. Exceedances of benchmark values require the permittee to increase monitoring, increase management actions, increase record keeping, and/or install stormwater Best Management Practices (BMPs) in a tiered program. See the descriptions of the Tiers One, Two, and Three required response actions in Section A. Sample results that exceed benchmark values must be submitted no later than 30 days from the date the facility receives the sampling results (see Part V, Section E).

Table 5 Benchmark Values for On-Site Vehicle Maintenance Activities

Discharge Characteristics	Benchmark Value
TSS	100 mg/L
TSS (HQW, ORW, Trout (Tr), and PNA waters)	50 mg/L
Non-Polar Oil and Grease <i>by EPA Method 1664 (SGT-HEM)</i>	15 mg/L

The benchmark values in **Table 5** are not enforceable permit limits. An exceedance of a stormwater benchmark value is not a permit violation; however, failure to respond to the exceedances as outlined in this permit is a violation of permit conditions. The benchmarks are intended to reduce polluted discharges by triggering the permittee's required response actions under Tiers One, Two, and Three.

Failure to monitor and report per the permit terms may result in the Division requiring monthly monitoring and reporting for all parameters for a specified time period. Lack of a discharge from an outfall for the monitoring period, or inability to collect a sample because of *adverse weather* conditions during a monitoring period will not constitute failure to monitor vehicle maintenance area discharges, as long as those conditions are reported on the monitoring period DMR and noted in the SPPP. (See *Adverse Weather* in Definitions.) Similarly, sampling is not required outside of the facility's normal operating hours (unless the mine is inactive).

SECTION C: STORMWATER DISCHARGES – QUALITATIVE MONITORING REQUIREMENTS

The purpose of qualitative monitoring is to implement a quick and inexpensive way to evaluate the effectiveness of the permittee's SPPP and to identify the potential for new sources of stormwater pollution. Qualitative monitoring of stormwater outfalls must be performed during a **measurable storm event**.

Qualitative monitoring requires a visual inspection of each stormwater outfall. Qualitative monitoring shall be performed as specified in **Table 6**, whether semi-annual or more frequently as may be required per the **Qualitative Monitoring Response** requirements below. Inability to monitor because of adverse weather or lack of discharge during the monitoring period must be documented in the SPPP and recorded on the Qualitative Monitoring Report (see *Adverse Weather* in Definitions). Similarly, monitoring is not required outside of the facility's normal operating hours (unless the mine is inactive). Only SDOs discharging *stormwater associated with industrial activity* must be monitored (See Definitions).

In the event an atypical condition is noted at a stormwater discharge outfall, the permittee shall document the suspected cause of the condition and any actions taken in response to the discovery. This documentation will be maintained with the SPPP.

Table 6 Qualitative Monitoring Requirements

Discharge Characteristics	Frequency ¹	Monitoring Location ²
Color	Semi-annual	SDO
Odor	Semi-annual	SDO
Clarity	Semi-annual	SDO
Floating Solids	Semi-annual	SDO
Suspended Solids	Semi-annual	SDO
Foam	Semi-annual	SDO
Oil Sheen	Semi-annual	SDO
Deposition at or immediately below the outfall	Semi-annual	SDO
Erosion at or immediately below the outfall	Semi-annual	SDO
Other obvious indicators of stormwater pollution	Semi-annual	SDO

Footnotes:

1. Monitoring Frequency: Twice per year (unless other provisions of this permit prompt other frequency) during a **measurable storm event**. See **Table 2** for schedule of monitoring periods. The permittee must continue qualitative monitoring throughout the permit renewal process.
2. Monitoring Location: Qualitative monitoring shall be performed at each stormwater discharge outfall (SDO) regardless of representative outfall status (ROS), *unless ROS is granted specifically for qualitative monitoring*. A copy of any letter granting ROS shall be kept on site. DEMLR's letter granting ROS remains in effect through the subsequent reissuance of this permit and as long as the pertinent site conditions and operations remain unchanged, unless the ROS letter provides for other conditions or duration.

Representative outfall status (ROS) specifically for qualitative monitoring may be granted for some stormwater outfalls and must be documented by DEMLR. Qualitative monitoring records shall not be turned into the Division except when requested. Qualitative monitoring records shall be maintained on site as part of the SPPP.

A minimum of 60 days must separate monitoring dates, *unless additional sampling has been instituted as part of other analytical monitoring requirements in this permit.*

If the permittee's qualitative monitoring indicates that existing stormwater BMPs are ineffective, or that significant stormwater contamination is present, the permittee shall investigate potential causes, evaluate the feasibility of corrective actions, and implement those feasible corrective actions within 60 days, per the **Qualitative Monitoring Response**, below. **A written record** of the permittee's investigation, evaluation, and response actions shall be kept in the SPPP.

Qualitative Monitoring Response

Qualitative monitoring is for the purposes of evaluating SPPP effectiveness, identifying the potential for new sources of stormwater pollution, and prompting the permittee's response to pollution. If the permittee repeatedly fails to respond effectively to correct problems identified by qualitative monitoring, or if the discharge causes or contributes to a water quality standard violation, **DEMLR may but is not limited to:**

- require that the permittee revise, increase, or decrease monitoring frequency for some or all parameters (analytical or qualitative);
- require the permittee to install structural stormwater controls;
- require the permittee to implement other stormwater control measures; or
- require the permittee to perform upstream and downstream monitoring to characterize impacts on receiving waters.

SECTION D: WASTEWATER DISCHARGES – ANALYTICAL MONITORING REQUIREMENTS AND EFFLUENT LIMITATIONS

This General Permit authorizes the discharge of process wastewater associated with two distinct activities: 1) mine dewatering and 2) process wastewater associated with mining operations as described below in 1.-4. of this Section. The authorization to discharge wastewater is specifically identified on each permittee's COC. ***Process wastewater discharges generated by any other activity are not authorized under this permit, except allowable non-stormwater discharges permitted by 15A NCAC 2H .0106(f).*** Mine dewatering or other wastewaters commingled with stormwater shall be considered wastewater.

1. MINE DEWATERING WASTEWATER

During the period beginning on the effective date of the permit and lasting until expiration, the permittee is authorized to discharge mine dewatering wastewater controlled in accordance with the conditions of this permit. **Mine dewatering** requirements apply to all mines that dewater from pits including quarries, clay brick, sand and gravel, borrow pits, and refractory mining, as well as mines with similar discharges. See Part VI (Definitions) and federal regulations in 40 CFR §436 for definitions of the terms “mine dewatering” and “mine” specific to industry sub-sectors. For **Construction Sand and Gravel** or **Industrial Sand** mines, “mine dewatering” wastewater includes wet pit overflows caused solely by direct rainfall and groundwater seepage.

Permittees conducting mine dewatering activities *that have the potential to drain wetlands or other surface waters* must have developed and implemented a **Pumping Operation and Monitoring (POM) Plan** approved by the Division. Approval may be coordinated with other Divisions in NC DEQ, such as the Division of Water Resources. **POM Plans** shall include, but are not limited to:

- Groundwater monitoring strategies to demonstrate the effect of pumping.
- Detailed plans to maintain the surrounding hydrology that protects the affected streams and wetlands and the respective monitoring to demonstrate compliance.
- The pumping regime deemed necessary to protect affected streams and wetlands.

Alternative site specific pumping and monitoring regimes may be approved by the Division on a case-by-case basis. At the Division's discretion, **approval of the POM Plan may be required prior to coverage under this General Permit.**

Mine dewatering discharges to land surfaces (without the potential to discharge directly to surface waters), where no chemicals are used in the mining process, may be permitted by regulation under 15A NCAC 02T .0113(a)(16) and therefore not subject to the provisions of this permit.

2. PROCESS WASTEWATER

During the period beginning on the effective date of the permit and lasting until expiration, the permittee is authorized to discharge treated process wastewater from mining operations. **Process wastewater** from mining operations includes, but may not be limited to, the water involved in: the slurry transport, washing, or sawing of mined material; air emissions control or processing exclusive of mining of sand, gravel, and stone washing operations; dimension stone cutting operations; and air scrubbing and dust control operations. See Part VI (Definitions) and federal regulations for definitions of the terms “process wastewater” in 40 CFR §122.2 and “process generated wastewater” specific to mining industry sub-sectors in 40 CFR §436. Treatment may involve conveyance through erosion and sedimentation control (E&SC) structures and/or other engineered treatment systems.

3. COMMINGLED STORMWATER AND WASTEWATER DISCHARGES

If mine dewatering or authorized process wastewaters commingle with stormwater prior to discharge, sampling the combined discharge under this Section D will meet the monitoring requirements of this permit. Sampling shall be performed during the discharge; these events may or may not be associated with rainfall.

4. RECYCLE SYSTEMS

Authorized process wastewater discharges (overflows) from a recycle system to surface waters are subject to the provisions, monitoring requirements, and effluent limitations in this General Permit.

MONITORING FOR MINE DEWATERING AND AUTHORIZED PROCESS WASTEWATER DISCHARGES

Analytical monitoring of mine dewatering and authorized process wastewater shall be performed as specified below in **Table 7**. For each parameter, an effluent limitation is contained in **Table 8**. An exceedance of any of these limitations results in a violation of the permit conditions and may be subject to enforcement action as specified in Part V, Section A.2 of this permit. In all cases, the permittee shall report the analytical results from each sample within the monitoring period (as specified in Part V, Standard Conditions, Section E) once a year (by March 1). Sample results that exceed an effluent limitation must be submitted to the Regional Office no later than 30 days from the date the facility receives the sampling results (see Part V, Section E).

Table 7 Monitoring Requirements for Wastewater Discharges in Section D – 1., 2., 3., and 4.

Discharge Characteristics	Units	Measurement Frequency ¹	Sample Type	Sample Location ³	Receiving Waters
pH ²	Standard	Quarterly ¹	Grab	E	All
Total Suspended Solids ^{2, 4}	mg/l	Quarterly ¹	Grab	E	All
Turbidity ^{2, 3}	NTU	Quarterly ¹	Grab	E, U & D ³	All
Settleable Solids ^{2, 5}	ml/l	Quarterly ¹	Grab	E	HQW, ORW, SA, SB, PNA, Tr
Fecal Coliform ^{2, 6}	col/ml	Quarterly ¹	Grab	E	SA waters only
Daily Flow Rate ⁷	cfs	Quarterly ¹	-	E	All

Footnotes:

1. The monitoring frequency is quarterly for the first year (see **Table 9**), and then semi-annually. If a sample concentration **exceeds any effluent limit in Table 8, monitoring frequency (all parameters) shall return to (or remain) quarterly**, until *four (4) consecutive quarterly samples* all meet or are below the limit for all parameters, allowing the permittee to resume/reduce to semi-annual monitoring.
2. Except for mine dewatering of clay pits, a grab sample is **not required for these parameters** from a **basin/pond designed to contain or treat** mine dewatering wastewater that only discharges in response to rainfall in excess of the **10-yr, 24-hr storm**.
3. Sample Location: E – Effluent, U – Upstream, D – Downstream. Turbidity must be monitored at the effluent (E). If effluent levels exceed the Water Quality Standard of the receiving water, the permittee must begin sampling turbidity directly upstream (U) and downstream (D) of the effluent outfall or group of outfalls, in addition to the effluent, upon the next monitoring period. The permittee may contact the

DEMLR Regional Office for assistance in determining the best instream sample points. The RO may also advise the permittee to relocate self-established instream sample points if appropriate.

4. All facilities that are **mining Industrial Sand** are required to monitor TSS and are subject to the TSS limits in **Table 8**. **All other types of mines** covered by this permit are *also required to monitor TSS*, but are not necessarily subject to the TSS limits in **Table 8**, *unless discharge is to HQW, ORW, or PNA waters*.
5. Only facilities discharging to waters classified as HQW, ORW, SA, SB, Tr, or PNA are required to monitor for settleable solids.
6. Only facilities discharging to waters classified as SA waters are required to monitor for fecal coliform.
7. Daily flow rate shall be recorded by a continuous flow measurement instrument. Alternatively, pump curves and pump logs may be used as a means to calculate the daily flow rate.

Table 8 Effluent Limitations For Wastewater Discharges

Discharge Characteristics	Effluent Limitations	
	Monthly Average ¹	Daily Maximum ¹
Total Suspended Solids ²	25 mg/l	45 mg/l
Total Suspended Solids ^{2, 3} (HQW, ORW)	20 mg/l	30 mg/l
Total Suspended Solids ^{2, 3} (HQW/ORW Trout, PNA waters)	10 mg/l	15 mg/l
pH Range ⁴ (freshwaters)	-----	6.0 – 9.0
pH Range ⁴ (saltwaters)	-----	6.8 – 8.5
Turbidity ⁵	-----	N/A (See Below)
Settleable Solids (HQW, ORW, SA, SB, PNA, & all Tr waters)	0.1 m/l	0.2 ml/l
Daily Flow Rate (HQW/ORW) ⁶	-----	50% of 7Q10 ⁶

Footnotes:

1. Note that for a semi-annual or quarterly sampling schedule, the sample result counts as both the Daily Maximum and Monthly Average value. More frequent samples may be conducted to calculate averages but must all be reported to NC DEQ.
2. Limits applicable to **Industrial Sand** mines. More stringent water quality-based TSS limits apply to *all mines* that discharge to High Quality Waters (HQW), including HQWs and ORWs that are trout waters (Tr), and Primary Nursery Area (PNA) waters (See 3.).
3. Monthly Average and Daily Maximum TSS Limits apply to **all discharges** (regardless of mine type) to **waters designated as HQW, ORW, HQW/ORW Tr, and PNA**.
4. Designated swamp waters can have a pH as low as 4.3 because of natural conditions. In such cases, Federal Effluent Guidelines (40 CFR §436) allow the lower range of the pH limitations to be adjusted downward to **no lower than 5.0**. The permittee must sample instream to demonstrate a lower limit is appropriate.
5. No limit in the effluent discharge applies, but turbidity in the receiving waters shall not exceed levels described below as a result of wastewater discharges.
6. The total daily flow rate of wastewater for all discharges combined (that discharge to the same receiving waters) shall not exceed 50 percent of the total in-stream flow rate of the receiving waters under 7Q10 conditions in HQW/ORW waters, including HQW/ORW trout and PNA waters.

The discharge shall not cause the turbidity of the receiving water to exceed Water Quality Standards:

10 NTU (freshwater streams, lakes, and reservoirs designated as trout waters);
25 NTU (all lakes and reservoirs, and all salt waters);
50 NTU (all other streams and surface waters).

This General Permit requires the measurement of turbidity in the permittee's discharge, but does not impose a turbidity effluent limit. If turbidity of the receiving stream exceeds these levels due to natural background conditions, the existing turbidity level shall not be increased. If the turbidity in-stream exceeds these levels *as a result of wastewater discharges*, this water quality standard violation subjects the permittee to possible compliance and enforcement action.

The permittee shall complete the analytical samplings of wastewater discharges in accordance with the schedule specified in **Table 9**.

Table 9 Monitoring Schedule

Quarterly Monitoring Events^{1,2}	Semi-Annual Monitoring Events^{1,2}	Start Date (All Years)³	End Date (All Years)³
Period 1	Period 1	January 1	March 31
Period 2		April 1	June 30
Period 3	Period 2	July 1	September 30
Period 4		October 1	December 31

Footnotes:

1. Maintain quarterly (or semi-annual) monitoring during permit renewal. If at the expiration of the General Permit, the permittee has submitted an application for renewal of coverage before the submittal deadline, the permittee will be considered for renewed coverage. The applicant must continue monitoring until the renewed Certificate of Coverage (COC) is issued.
2. If no discharge occurs during the sampling period, the permittee must record "No Flow" or "No Discharge" within 30 days of the end of the sampling period in the facility's monitoring records. "No Flow" or "No Discharge" shall be reported on the Annual Summary Discharge Monitoring Report (DMR). This DMR is to be submitted to the Division of Water Resource's Central Files at the **DWR Central Office by March 1 of each year** (in accordance with Part V, Section E).
3. Monitoring periods remain constant throughout the five-year term of the General Permit. For permittees continuing with renewed coverage under this General Permit, Year 1 begins in Period 4 on **October 1, 2015**, and for all permittees Year 5 - Period 4 ends on **September 30, 2020**.

Failure to monitor and report per the permit terms may result in the Division requiring monthly monitoring and reporting for all parameters for a specified time period.

SECTION E: BMP CONDITIONS AND RESIDUALS MANAGEMENT

1. BMPs FOR BLASTING AND FLOCCULANTS

The permittee shall utilize best management practices (BMPs) to ensure that contaminants do not enter the surface waters as a result of blasting at the site. Flocculants evaluated by the Division may be used if administered in accordance with maximum application doses and any other current requirements.

2. RESIDUALS MANAGEMENT

The residuals generated from treatment facilities used to meet the effluent limitations must be disposed of in accordance with applicable standards and in a manner such as to prevent any pollutants from such materials from entering waters of the state or navigable waters of the United States.

PART V – STANDARD CONDITIONS FOR NPDES GENERAL PERMITS

SECTION A: COMPLIANCE AND LIABILITY

1. Compliance Schedule

The permittee shall comply with Limitations and Controls specified for stormwater discharges in accordance with the following schedule:

Existing Facilities already operating but applying for permit coverage for the first time: The Stormwater Pollution Prevention Plan shall be developed and implemented within 6 months of the effective date of the **Certificate of Coverage** and updated thereafter on an annual basis. Secondary containment, as specified in Part III of this General Permit, shall be accomplished within 12 months of the effective date of the issuance of the **Certificate of Coverage**.

New Facilities applying for coverage for the first time: The Stormwater Pollution Prevention Plan shall be developed and implemented prior to the beginning of discharges from the operation of the industrial activity and be updated thereafter on an annual basis. Secondary containment, as specified in Part III of this General Permit shall be accomplished prior to the beginning of discharges from the operation of the industrial activity.

Existing facilities previously permitted and applying for renewal under this General Permit: All requirements, conditions, limitations, and controls contained in this permit (except new SPPP elements in this permit renewal) shall become effective immediately upon issuance of the **Certificate of Coverage**. New elements of the Stormwater Pollution Prevention Plan for this permit renewal shall be developed and implemented within 6 months of the effective date of this General Permit and updated thereafter on an annual basis. Secondary containment, as specified in Part III of this General Permit shall be accomplished prior to the beginning of discharges from the operation of the industrial activity.

2. Duty to Comply

The permittee must comply with all conditions of this General Permit. Any permit noncompliance constitutes a violation of the Clean Water Act (CWA) and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit upon renewal application [40 CFR 122.41].

- a. The permittee shall comply with standards or prohibitions established under section 307(a) of the CWA for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the General Permit has not yet been modified to incorporate the requirement [40 CFR 122.41].
- b. The CWA provides that any person who violates section[s] 301, 302, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any such sections in a permit issued under section 402, or any requirement imposed in a pretreatment program approved under sections 402(a)(3) or 402(b)(8) of the Act, is subject to a civil penalty not to exceed \$37,500 per day for each violation [33 USC 1319(d) and 40 CFR 122.41(a)(2)].
- c. The CWA provides that any person who negligently violates sections 301, 302, 306, 307, 308, 318, or 405 of the Act, or any condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, or any requirement imposed in a pretreatment program approved under section 402(a)(3) or 402(b)(8) of the Act, is subject to criminal penalties of \$2,500 to \$25,000 per day of violation, or imprisonment of not more than 1 year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be

subject to criminal penalties of not more than \$50,000 per day of violation, or by imprisonment of not more than 2 years, or both [33 USC 1319(c)(1) and 40 CFR 122.41(a)(2)].

- d. Any person who knowingly violates such sections, or such conditions or limitations is subject to criminal penalties of \$5,000 to \$50,000 per day of violation, or imprisonment for not more than 3 years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than \$100,000 per day of violation, or imprisonment of not more than 6 years, or both [33 USC 1319(c)(2) and 40 CFR 122.41(a)(2)].
- e. Any person who *knowingly* violates section 301, 302, 303, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than \$250,000 or imprisonment of not more than 15 years, or both. In the case of a second or subsequent conviction for a knowing endangerment violation, a person shall be subject to a fine of not more than \$500,000 or by imprisonment of not more than 30 years, or both. An organization, as defined in section 309(c)(3)(B)(iii) of the CWA, shall, upon conviction of violating the imminent danger provision, be subject to a fine of not more than \$1,000,000 and can be fined up to \$2,000,000 for second or subsequent convictions [40 CFR 122.41(a)(2)].
- f. Under state law, a civil penalty of not more than \$25,000 per violation may be assessed against any person who violates or fails to act in accordance with the terms, conditions, or requirements of a permit [North Carolina General Statutes § 143-215.6A].
- g. Any person may be assessed an administrative penalty by the Administrator for violating section 301, 302, 306, 307, 308, 318 or 405 of this Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of this Act. Administrative penalties for Class I violations are not to exceed \$16,000 per violation, with the maximum amount of any Class I penalty assessed not to exceed \$37,500. Penalties for Class II violations are not to exceed \$16,000 per day for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed \$177,500. [33 USC 1319(g)(2) and 40 CFR 122.41(a)(3)].

3. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this General Permit which has a reasonable likelihood of adversely affecting human health or the environment [40 CFR 122.41(d)].

4. Civil and Criminal Liability

Except as provided in Part V, Section C of this General Permit regarding bypassing of stormwater control facilities, nothing in this permit shall be construed to relieve the permittee from any responsibilities, liabilities, or penalties for noncompliance pursuant to NCGS 143-215.3, 143-215.6, or Section 309 of the Federal Act, 33 USC 1319. Furthermore, the permittee is responsible for consequential damages, such as fish kills, even though the responsibility for effective compliance may be temporarily suspended.

5. Oil and Hazardous Substance Liability

Nothing in this General Permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject to under NCGS 143-215.75 et seq. or Section 311 of the Federal Act, 33 USC 1321.

6. Property Rights

The issuance of this General Permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any

invasion of personal rights, nor any infringement of Federal, State or local laws or regulations [40 CFR 122.41(g)].

7. Severability
The provisions of this General Permit are severable, and if any provision of this General Permit, or the application of any provision of this General Permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this General Permit, shall not be affected thereby [NCGS 150B-23].
8. Duty to Provide Information
The permittee shall furnish to the Permit Issuing Authority, within a reasonable time, any information which the Permit Issuing Authority may request to determine whether cause exists for modifying, revoking and reissuing, or terminating the General Permit issued pursuant to this General Permit or to determine compliance with this General Permit. The permittee shall also furnish to the Permit Issuing Authority upon request, copies of records required to be kept by this General Permit [40 CFR 122.41(h)].
9. Penalties for Tampering
The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate, any monitoring device or method required to be maintained under this General Permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than two years per violation, or by both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than 4 years, or both [40 CFR 122.41].
10. Penalties for Falsification of Reports
The Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this General Permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than two years per violation, or by both [40 CFR 122.41].
11. Onshore or Offshore Construction
This General Permit does not authorize or approve the construction of any onshore or offshore physical structures or facilities or the undertaking of any work in any navigable waters.
12. Duty to Reapply
Dischargers covered by this General Permit need not submit a new Notice of Intent (NOI) or renewal request unless so directed by the Division. If the Division chooses not to renew this General Permit, the permittee will be notified to submit an application for an individual permit [15A NCAC 02H .0127(e)].

SECTION B: GENERAL CONDITIONS

1. General Permit Expiration
General permits will be effective for a term not to exceed five years, at the end of which the Division may renew them after all public notice requirements have been satisfied. If a general permit is renewed, existing permittees do not need to submit a renewal request or pay a renewal fee unless directed by the Division. New applicants seeking coverage under a renewed general permit must submit a Notice of Intent (NOI) to be covered and obtain a Certificate of Coverage under the renewed general permit [15A NCAC 02H .0127(e)].

2. Transfers

This General Permit is not transferable to any person without prior written notice to and approval from the Director in accordance with 40 CFR 122.61. The Director may condition approval in accordance with NCGS 143-215.1, in particular NCGS 143-215.1(b)(4)b.2., and may require modification or revocation and reissuance of the **Certificate of Coverage**, or a minor modification, to identify the new permittee and incorporate such other requirements as may be necessary under the CWA [40 CFR 122.41(l)(3), 122.61] or state statute. **The Permittee is required to notify the Division in writing in the event the permitted facility is sold or closed.**

3. When an Individual Permit May be Required

The Director may require any owner/operator authorized to discharge under a certificate of coverage issued pursuant to this General Permit to apply for and obtain an individual permit or an alternative general permit. Any interested person may petition the Director to take action under this paragraph. Cases where an individual permit may be required include, but are not limited to, the following:

- a. The discharger is a significant contributor of pollutants;
- b. Conditions at the permitted site change, altering the constituents and/or characteristics of the discharge such that the discharge no longer qualifies for a general permit;
- c. The discharge violates the terms or conditions of this General Permit;
- d. A change has occurred in the availability of demonstrated technology or practices for the control or abatement of pollutants applicable to the point source;
- e. Effluent limitations are promulgated for the point sources covered by this General Permit;
- f. A water quality management plan containing requirements applicable to such point sources is approved after the issuance of this General Permit;
- g. The Director determines at his or her own discretion that an individual permit is required.

4. When an Individual Permit May be Requested

Any permittee operating under this General Permit may request to be excluded from the coverage of this General Permit by applying for an individual permit. When an individual permit is issued to an owner/operator the applicability of this General Permit is automatically terminated on the effective date of the individual permit.

5. Signatory Requirements

All applications, reports, or information submitted to the Permitting Issuing Authority shall be signed and certified [40 CFR 122.41(k)].

- a. All Notices of Intent to be covered under this General Permit shall be signed as follows:

- (1) For a corporation: by a responsible corporate officer. For the purpose of this Section, a responsible corporate officer means: (a) a president, secretary, treasurer or vice president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions for the corporation, or (b) the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

- (2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
 - (3) For a municipality, State, Federal, or other public agency: by either a principal executive officer or ranking elected official [40 CFR 122.22].
 - b. All reports required by the General Permit and other information requested by the Permit Issuing Authority shall be signed by a person described in paragraph a. above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - (1) The authorization is made in writing by a person described above;
 - (2) The authorization specified either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or well field, superintendent, a position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and
 - (3) The written authorization is submitted to the Permit Issuing Authority [40 CFR 122.22].
 - c. Changes to authorization: If an authorization under paragraph (b) of this section is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of paragraph (b) of this section must be submitted to the Director prior to or together with any reports, information, or applications to be signed by an authorized representative [40 CFR 122.22]
 - d. Certification. Any person signing a document under paragraphs a. or b. of this section, or submitting an electronic report (e.g., eDMR), shall make the following certification [40 CFR 122.22]. NO OTHER STATEMENTS OF CERTIFICATION WILL BE ACCEPTED:
"I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."
 - e. Electronic Reports. The Permit Issuing Authority may require the permittee to begin reporting monitoring data electronically during the term of this permit. The permittee may be required to use North Carolina's Electronic Discharge Monitoring Report (eDMR) internet application for that purpose. For eDMR submissions, the person signing and submitting the eDMR must obtain an eDMR user account and login credentials to access the eDMR system.
All electronic reports (e.g., eDMRs) submitted to the Permit Issuing Authority shall be signed by a person described in paragraph a. above or by a duly authorized representative of that person as described in paragraph b. A person, and not a position, must be delegated signatory authority for eDMR or other electronic reporting purposes.
6. General Permit Modification, Revocation and Reissuance, or Termination
The issuance of this General Permit does not prohibit the Permit Issuing Authority from reopening and modifying the General Permit, revoking and reissuing the General Permit, or terminating the General Permit as allowed by the laws, rules, and regulations contained in Title 40, Code of Federal Regulations, Parts 122 and 123; Title 15A of the North Carolina Administrative Code, Subchapter 2H .0100; and North Carolina General Statute 143-215.1 et al.

After public notice and opportunity for a hearing, the General Permit may be terminated for cause. The filing of a request for a General Permit modification, revocation and reissuance, or termination does not stay any General Permit condition. The **Certificate of Coverage** shall expire when the General Permit is terminated.

7. Certificate of Coverage Actions
Coverage under the General Permit may be modified, revoked and reissued, or terminated for cause. The notification of planned changes or anticipated noncompliance does not stay any General Permit condition [40 CFR 122.41(f)].
8. Annual Administering and Compliance Monitoring Fee Requirements
The permittee must pay the administering and compliance monitoring fee within 30 (thirty) days after being billed by the Division. Failure to pay the fee in timely manner in accordance with 15A NCAC 2H .0105(b)(2) may cause this Division to initiate action to revoke coverage under the General Permit.

SECTION C: OPERATION AND MAINTENANCE OF POLLUTION CONTROLS

1. Proper Operation and Maintenance
The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of this permit [40 CFR 122.41(e)].
2. Need to Halt or Reduce Not a Defense
It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the condition of this General Permit [40 CFR 122.41(c)].
3. Bypassing of Stormwater Control Facilities at Mine Sites Covered by NCG020000
Bypass is prohibited, and the Permit Issuing Authority may take enforcement action against a permittee for bypass unless:
 - a. Bypass was unavoidable to prevent loss of life, personal injury or severe property damage; and
 - b. There were no feasible alternatives to the bypass, such as the use of auxiliary control facilities, retention of stormwater, or maintenance during normal periods of equipment downtime or dry weather. This condition is not satisfied if adequate backup controls should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - c. The permittee submitted notices as required under Part V, Section E of this General Permit.

If the Permit Issuing Authority determines that it will meet the three conditions listed above, the Permit Issuing Authority may approve an anticipated bypass after considering its adverse effects.

4. Bypassing of Wastewater Treatment Facilities at Mine Sites Covered by NCG020000
 - a. Bypass not exceeding limitations [40 CFR 122.41(m)(2)]
The Permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Paragraphs b. and c. of this section.
 - b. Notice [40 CFR 122.41(m)(3)]

- (1) Anticipated bypass. If the Permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass; including an evaluation of the anticipated quality and effect of the bypass.
 - (2) Unanticipated bypass. The Permittee shall submit notice of an unanticipated bypass as required in Part V, Section E of this General Permit.
- c. Prohibition of Bypass
- (1) Bypass from the wastewater treatment facility is prohibited, and the Permit Issuing Authority may take enforcement action against a Permittee for bypass, unless:
 - (A) Bypass was unavoidable to prevent loss of life, personal injury or severe property damage;
 - (B) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - (C) The Permittee submitted notices as required under Paragraph b. of this section.
 - (2) The Permit Issuing Authority may approve an anticipated bypass, after considering its adverse effects, if the Permit Issuing Authority determines that it will meet the three conditions listed above in Paragraph c. (1) of this section.

SECTION D: MONITORING AND RECORDS

1. Representative Sampling
 Samples collected and measurements taken, as required herein, shall be characteristic of the volume and nature of the permitted discharge. Analytical sampling shall be performed during a measureable storm event. Samples shall be taken on a day and time that is characteristic of the discharge. All samples shall be taken before the discharge joins or is diluted by any other waste stream, body of water, or substance. Monitoring points as specified in this General Permit shall not be changed without notification to and approval of the Permit Issuing Authority [40 CFR 122.41(j)].
2. Recording Results
 For each measurement or sample taken pursuant to the requirements of this General Permit, the permittee shall record the following information [40 CFR 122.41]:
 - a. The date, exact place, and time of sampling or measurements;
 - b. The individual(s) who performed the sampling or measurements;
 - c. The date(s) analyses were performed;
 - d. The individual(s) who performed the analyses;
 - e. The analytical techniques or methods used; and
 - f. The results of such analyses.
3. Flow Measurements
 Where required, appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges.
4. Test Procedures
 Test procedures for the analysis of pollutants shall conform to the EMC regulations published pursuant to NCGS 143-215.63 et. seq, the Water and Air Quality Reporting Acts, and to regulations

published pursuant to Section 304(g), 33 USC 1314, of the Federal Water Pollution Control Act, as Amended, and Regulation 40 CFR 136.

To meet the intent of the monitoring required by this General Permit, all test procedures must produce minimum detection and reporting levels and all data generated must be reported down to the minimum detection or lower reporting level of the procedure. If no approved methods are determined capable of achieving minimum detection and reporting levels below the General Permit discharge requirements, then the most sensitive (method with the lowest possible detection and reporting level) approved method must be used.

5. Representative Outfall

If a facility has multiple discharge locations with substantially identical stormwater discharges that are required to be sampled, the permittee may petition the Director for representative outfall status. If it is established that the stormwater discharges are substantially identical and the permittee is granted representative outfall status, then analytical sampling requirements may be performed at a reduced number of outfalls.

6. Records Retention

Visual monitoring shall be documented and records maintained at the facility along with the Stormwater Pollution Prevention Plan (SPPP). Copies of analytical monitoring results shall also be maintained on-site or be available electronically to a DEMLR inspector upon request. The permittee shall retain records of all monitoring information, including

- all calibration and maintenance records,
- all original strip chart recordings for continuous monitoring instrumentation,
- copies of all reports required by this General Permit, including Discharge Monitoring Reports (DMRs) and eDMR or other electronic DMR report submissions.
- copies of all data used to complete the Notice of Intent to be covered by this General Permit.

These records or copies shall be maintained for a period of at least 5 years from the date of the sample, measurement, report or Notice of Intent application. This period may be extended by request of the Director at any time [40 CFR 122.41].

7. Inspection and Entry

The permittee shall allow the Director, or an authorized representative (including an authorized contractor acting as a representative of the Director), or in the case of a facility which discharges through a municipal separate storm sewer system, an authorized representative of a municipal operator or the separate storm sewer system receiving the discharge, upon the presentation of credentials and other documents as may be required by law, to:

- a. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this General Permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this General Permit;
- c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this General Permit; and
- d. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location [40 CFR 122.41(i)].

SECTION E: REPORTING REQUIREMENTS**1. Discharge Monitoring Reports**

Samples analyzed in accordance with the terms of this General Permit shall be recorded on Discharge Monitoring Report (DMR) forms provided by the Director or submitted electronically to the appropriate authority using an approved electronic DMR reporting system (e.g., eDMR). Annual Summary DMRs shall be delivered to the **Division (Central Office) no later than March 1 of each year** (See 2. of this section). In addition, any samples analyzed in accordance with the terms of this permit that *violate a wastewater effluent limit or exceed a stormwater benchmark value* shall be submitted to the Division Regional Office on a DMR form and delivered to the Division Central Files **no later than 30 days from the date the facility receives the sampling results from the laboratory**. DMR forms are available on the Division's website (<http://portal.ncdenr.org/web/lr/npdes-stormwater>). Regardless of the submission method (paper or electronic), submittals shall be delivered to the Division, or appropriate authority, according to the provisions above.

When no discharge has occurred from the facility during the report period, the permittee is required to submit a discharge monitoring report, within 30 days of the end of the specified sampling period, giving all required information and indicating "NO FLOW" as per NCAC T15A 02B .0506.

If the permittee monitors any pollutant more frequently than required by this General Permit using test procedures approved under 40 CFR Part 136 and at a sampling location specified in this General Permit or other appropriate instrument governing the discharge, the results of such monitoring shall be included in the data submitted on the DMR.

The permittee shall record the required qualitative monitoring observations on the SDO Qualitative Monitoring Report form provided by the Division and shall retain the completed forms on site. Qualitative monitoring results should not be submitted to the Division, except upon DEMLR's specific requirement to do so. Qualitative Monitoring Report forms are available at the website above.

2. Submitting Reports

Two signed copies of the Annual Summary Discharge Monitoring Report (DMR) shall be submitted **no later than March 1 of each year** to DWR Central Files (not DEMLR):

Central Files
Division of Water Resources (DWR)
1617 Mail Service Center
Raleigh, North Carolina 27699-1617

If wastewater monitoring results indicate a **wastewater effluent limit violation**, a signed DMR form for that monitoring period shall be sent to the appropriate DEMLR Regional Office (Attn: Stormwater Permitting Program) **no later than 30 days from the date the facility receives the sampling results from the laboratory**.

If stormwater monitoring results indicate a **stormwater benchmark value exceedance or the facility is in Tier 2 monitoring**, a signed DMR form for that monitoring period shall be sent to the appropriate DEMLR Regional Office (Attn: Stormwater Permitting Program) **no later than 30 days from the date the facility receives the sampling results from the laboratory**. All stormwater outfall parameters shall be monitored and reported for any monitoring period that the facility is following a Tier 2 response.

Addresses for each RO and the counties covered by each RO can be found here:

<http://portal.ncdenr.org/web/guest/regional-offices>. The permittee shall retain the completed originals on site. Visual (Qualitative) monitoring results should not be submitted to the Division unless specifically requested.

Blank DMR forms, Annual Summary DMR forms, and visual monitoring forms are available at the website of the Division's Stormwater Permitting Program:

<http://portal.ncdenr.org/web/lr/npdes-stormwater>

The Permit Issuing Authority may require the permittee to begin reporting monitoring data electronically during the term of this permit. The permittee may be required to use North Carolina's eDMR internet application for that purpose. Until such time that the state's eDMR application is compliant with EPA's Cross-Media Electronic Reporting Regulation (CROMERR), permittees will be required to submit all discharge monitoring data to the state electronically using eDMR and will be required to complete the eDMR submission by printing, signing, and submitting one signed original and a copy of the computer printed eDMR to the address above.

3. Availability of Reports

Except for data determined to be confidential under NCGS 143-215.3(a)(2) or Section 308 of the Federal Act, 33 USC 1318, all reports prepared in accordance with the terms shall be available for public inspection at the offices of the Division. As required by the Act, analytical data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in NCGS 143-215.6B or in Section 309 of the Federal Act.

4. Non-Stormwater Discharges

If the storm event monitored in accordance with this General Permit coincides with a non-stormwater discharge, the permittee shall separately monitor all parameters as required under all other applicable discharge permits and provide this information with the stormwater discharge monitoring report.

5. Planned Changes

The permittee shall give notice to the Director as soon as possible of any planned changes at the permitted facility which could significantly alter the nature or quantity of pollutants discharged [40 CFR 122.41(l)]. This notification requirement includes pollutants which are not specifically listed in the General Permit or subject to notification requirements under 40 CFR Part 122.42 (a).

6. Anticipated Noncompliance

The permittee shall give advance notice to the Director of any planned changes at the permitted facility which may result in noncompliance with the General Permit [40 CFR 122.41(l)(2)].

7. Spills

The permittee shall report to the local DEMLR Regional Office, within 24 hours, all significant spills as defined in Part VI of this General Permit. Additionally, the permittee shall report spills including: any oil spill of 25 gallons or more, any spill regardless of amount that causes a sheen on surface waters, any oil spill regardless of amount occurring within 100 feet of surface waters, and any oil spill less than 25 gallons that cannot be cleaned up within 24 hours.

8. Bypass

Notice [40 CFR 122.41(m)(3)]:

- a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass; including an evaluation of the anticipated quality and effect of the bypass.
- b. Unanticipated bypass. The permittee shall submit notice within 24 hours of becoming aware of an unanticipated bypass.

9. Twenty-four Hour Reporting

- a. The permittee shall report to the central office or the appropriate regional office any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee became aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances.

The written submission shall contain a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time compliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance [40 CFR 122.41(l)(6)].

- b. The Director may waive the written report on a case-by-case basis for reports under this section if the oral report has been received within 24 hours.
- c. Occurrences outside normal business hours may also be reported to the Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.

10. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under 24 hour reporting at the time monitoring reports are submitted [40 CFR 122.41(l)(7)].

11. Other Information

Where the Permittee becomes aware that it failed to submit any relevant facts in a Notice of Intent to be covered under this General Permit, or submitted incorrect information in that Notice of Intent application or in any report to the Director, it shall promptly submit such facts or information [40 CFR 122.41(l)(8)].

PART VI DEFINITIONS

Additional definitions for the NPDES Program may be found in federal rule at 40 CFR Part 122.2 and in the effluent limitation guidelines for the Mineral Mining and Processing Point Source Category at 40 CFR Part 436.

1. Act
See Clean Water Act.
2. Adverse Weather
Adverse conditions are those that are dangerous or create inaccessibility for personnel, such as local flooding, high winds, or electrical storms, or situations that otherwise make sampling impractical. When adverse weather conditions prevent the collection of samples during the sample period, the permittee must take a substitute sample or perform a visual assessment during the next qualifying storm event. Documentation of an adverse event (with date, time and written narrative) and the rationale must be included with your SPPP records. Adverse weather does not exempt the permittee from having to file a monitoring report in accordance with the sampling schedule. Adverse events and failures to monitor must also be explained and reported on the relevant DMR.
3. Allowable Non-Stormwater Discharges
This General Permit regulates stormwater discharges. Non-stormwater discharges which shall be allowed in the stormwater conveyance system include:
 - a. All other discharges that are authorized by a non-stormwater NPDES permit.
 - b. Uncontaminated groundwater, foundation drains, air-conditioner condensate without added chemicals, springs, discharges of uncontaminated potable water, waterline and fire hydrant flushings, water from footing drains, irrigation waters, flows from riparian habitats and wetlands.
 - c. Discharges resulting from fire-fighting or fire-fighting training, or emergency shower or eye wash as a result of use in the event of an emergency.
4. Best Management Practices (BMPs)
Measures or practices used to reduce the amount of pollution entering surface waters. BMPs may take the form of a process, activity, or physical structure. More information on BMPs can be found at: <http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm>.
5. Bypass
A bypass is the known diversion of stormwater from any portion of a control facility including the collection system, or the diversion of waste streams from any portion of a treatment facility including the collection system, which is not a designed or established operating mode for the facility.
6. Bulk Storage of Liquid Materials
Liquid raw materials, in-process liquids and reactants, manufactured products, waste materials or by-products contained in a single above ground container, tank, or vessel having a capacity of greater than 660 gallons or contained in multiple above ground containers, tanks, or vessels located in close proximity to each other having a total combined capacity of greater than 1,320 gallons.
7. Certificate of Coverage
The **Certificate of Coverage (COC)** is the cover sheet which accompanies a general permit upon issuance and lists the facility name, location, receiving stream, river basin, effective date of coverage under the general permit and is signed by the Director.
8. Clean Water Act
The Federal Water Pollution Control Act, also known as the Clean Water Act (CWA), as amended, 33 USC 1251, et. seq.

9. Division or DEMLR
The Division of Energy, Mineral, and Land Resources, Department of Environmental Quality (DEQ), formerly the Department of Environment and Natural Resources.
10. Director
The Director of the Division of Energy, Mineral, and Land Resources, the permit issuing authority.
11. EMC
The North Carolina Environmental Management Commission.
12. Grab Sample
An individual sample collected instantaneously. Grab samples that will be analyzed (quantitatively or qualitatively) should be taken within the first 30 minutes of discharge.
13. Hazardous Substance
Any substance designated under 40 CFR Part 116 pursuant to Section 311 of the Clean Water Act.
14. Landfill
A disposal facility or part of a disposal facility where waste is placed in or on land and which is not a land treatment facility, a surface impoundment, an injection well, a hazardous waste long-term storage facility or a surface storage facility.
15. Measureable Storm Event
A storm event that results in an actual discharge from the permitted site outfall. The previous measurable storm event must have been at least **48 hours** prior (applies specifically to this NCG020000 General Permit). The 48-hour storm interval may not apply if the permittee is able to document that a shorter interval is representative for local storm events during the sampling period, and obtains approval from the local DEMLR Regional Office. Two copies of this information and a written request letter shall be sent to the local DEMLR Regional Office. After authorization by the DEMLR Regional Office, a written approval letter must be kept on site in the permittee's SPPP.
16. Mine Dewatering
See Code of Federal Regulations for definition applicable to specific mineral mining subcategories in 40 CFR Part 436. The term "mine dewatering" (wastewater) means any water that is impounded or that collects in the mine and is pumped, drained, or otherwise removed from the mine through the efforts of the mine operator. For the **Construction Sand and Gravel Subcategory** and **Industrial Sand Subcategory**, "mine dewatering" *also includes wet pit overflows caused solely by direct rainfall and ground water seepage*. In this context, and also from 40 CFR Part 436, the term "mine" means an area of land, surface or underground, actively mined for the production of either crushed and broken stone (Crushed Stone Subcategory), sand and gravel (Construction Sand and Gravel, Industrial Sand Subcategories), or other mine product, from natural deposits.
17. Municipal Separate Storm Sewer System (MS4)
A stormwater collection system within an incorporated area of local self-government such as a city or town.
18. No Exposure
A condition of no exposure means that all industrial materials and activities are protected by a storm resistant shelter or acceptable storage containers to prevent exposure to rain, snow, snowmelt, or runoff. Industrial materials or activities include, but are not limited to, material handling equipment or activities, industrial machinery, raw materials, intermediate products, by-products, final products, or waste products. DEMLR may grant a No Exposure Exclusion from NPDES stormwater permitting

requirements only if a facility complies with the terms and conditions described in 40 CFR §122.26(g).

19. Notice of Intent
The state application form which, when submitted to the Division, officially indicates the facility's notice of intent to seek coverage under a general permit.
20. Permit Issuing Authority
The Director of the Division of Energy, Mineral, and Land Resources (see "Director" above).
21. Permittee
The owner or operator issued a Certificate of Coverage pursuant to this General Permit.
22. Point Source Discharge of Stormwater
Any discernible, confined and discrete conveyance including, but not specifically limited to, any pipe, ditch, channel, tunnel, conduit, well, or discrete fissure from which stormwater is or may be discharged to waters of the state.
23. Process Generated Wastewater
See Code of Federal Regulations for definition applicable to specific mineral mining subcategories in 40 CFR Part 436.
24. Process Wastewater
Any water which, during manufacturing or processing, comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct, or waste product See Code of Federal Regulations in 40 CFR Part 122.2.
25. Representative Outfall Status
When it is established that the discharge of stormwater runoff from a single outfall is representative of the discharges at multiple outfalls, the DEMLR may grant representative outfall status. Representative outfall status (ROS) allows the permittee to perform analytical monitoring at a reduced number of outfalls.
26. Secondary Containment
Spill containment for the contents of the single largest tank within the containment structure plus sufficient freeboard to contain the 25-year, 24-hour storm event.
27. Section 313 Water Priority Chemical
A chemical or chemical category which:
 - b. Is listed in 40 CFR 372.65 pursuant to Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986, also titled the Emergency Planning and Community Right-to-Know Act of 1986;
 - c. Is present at or above threshold levels at a facility subject to SARA title III, Section 313 reporting requirements; and
 - d. Meets at least one of the following criteria:
 - i. Is listed in appendix D of 40 CFR Part 122 on Table II (organic priority pollutants), Table III (certain metals, cyanides, and phenols) or Table IV (certain toxic pollutants and hazardous substances);
 - ii. Is listed as a hazardous substance pursuant to section 311(b)(2)(A) of the CWA at 40 CFR 116.4; or
 - iii. Is a pollutant for which EPA has published acute or chronic water quality criteria.
28. Severe Property Damage
Substantial physical damage to property, damage to the control facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be

expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

29. Significant Materials
Includes, but is not limited to: raw materials; fuels; materials such as solvents, detergents, and plastic pellets; finished materials such as metallic products; raw materials used in food processing or production; hazardous substances designated under section 101(14) of CERCLA; any chemical the facility is required to report pursuant to section 313 of Title III of SARA; fertilizers; pesticides; and waste products such as ashes, slag and sludge that have the potential to be released with stormwater discharges.
30. Significant Spills
Includes, but is not limited to: releases of oil or hazardous substances in excess of reportable quantities under section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or section 102 of CERCLA (Ref: 40 CFR 302.4).
31. Stormwater Discharge Outfall (SDO)
The point of departure of stormwater from a discernible, confined, or discrete conveyance, including but not limited to, storm sewer pipes, drainage ditches, channels, spillways, or channelized collection areas, from which stormwater flows directly or indirectly into waters of the State of North Carolina.
32. Stormwater Runoff
The flow of water which results from precipitation and which occurs immediately following rainfall or as a result of snowmelt.
33. Stormwater Associated with Industrial Activity
The discharge from any point source which is used for collecting and conveying stormwater and which is directly related to manufacturing, processing or raw material storage areas at an industrial site. Facilities considered to be engaged in "industrial activities" include those activities defined in 40 CFR 122.26(b)(14). The term does not include discharges from facilities or activities excluded from the NPDES program.
34. Stormwater Pollution Prevention Plan (SPPP)
A comprehensive site-specific plan which details measures and practices to reduce stormwater pollution and is based on an evaluation of the pollution potential of the site.
35. Total Maximum Daily Load (TMDL)
TMDLs are written plans for attaining and maintaining water quality standards, in all seasons, for a specific water body and pollutant. A list of approved TMDLs for the state of North Carolina can be found at <http://portal.ncdenr.org/web/wq/ps/mtu/tmdl>.
36. Toxic Pollutant
Any pollutant listed as toxic under Section 307(a)(1) of the Clean Water Act.
37. Vehicle Maintenance Activity
Vehicle rehabilitation, mechanical repairs, painting, fueling, lubrication, vehicle cleaning operations, or airport deicing operations.
38. Visible Sedimentation
Solid particulate matter, both mineral and organic, that has been or is being transported by water, air, gravity, or ice from its site of origin which can be seen with the unaided eye.

39. 10-year, 24 hour Storm Event
The maximum 24-hour precipitation event expected to be equaled or exceeded, on the average, once in 10 years.
40. 25-year, 24 hour Storm Event
The maximum 24-hour precipitation event expected to be equaled or exceeded, on the average, once in 25 years.



Technical Bulletin for N.C. General NPDES Permit NCG020000 (Mining Activities) Division of Energy, Mineral, and Land Resources

Technical Bulletin for NCG020000 (Mining)

Last Revised 10/8/2015

What activities are covered by this general permit?

NCG020000 coverage authorizes:

- Stormwater discharges associated with mining and quarrying of non-metallic minerals (except fuels), mine excavation, processing, and vehicle maintenance activities (VMA) at mine sites.
- Wastewater discharges (dewatering, process wastewater, wastewater recycle system overflows).
- Operation of wastewater treatment systems (Authorization to Construct no longer required).

NCG020000 coverage is NOT APPLICABLE to:

- Borrow Pits covered by the NC DOT statewide stormwater permit.
- Peat mining, coal mining, metal mining, or oil & gas extraction operations.
- Wastewater not specifically identified by the general permit.

What are key stormwater requirements?

NCG020000 requires periodic discharge monitoring and a Stormwater Pollution Prevention Plan (SPPP):

- Develop and implement an SPPP, and update it at least annually.
- Inspect Stormwater Best Management Practices (BMPs) once every seven (7) calendar days.
- Semi-annual analytical monitoring and qualitative (visual) monitoring.
- Report stormwater monitoring data once a year by March 1st to DEQ Central Office.
- Report benchmark exceedances or Tier 2 monitoring to the DEMLR Regional Office within 30 days.
- Respond to benchmark exceedances according to Tier response requirements.

What are key wastewater requirements?

NCG020000 stipulates wastewater treatment facility operational requirements and periodic discharge monitoring:

- Notify DEQ if facility fails to perform satisfactorily or creates nuisance conditions.
- Only DEQ-evaluated flocculants may be used, if administered according to maximum application doses.
- Quarterly analytical monitoring for first year, or until four consecutive samples comply with all limits (then semi-annual monitoring allowed). Quarterly monitoring schedule resumes upon any limit violation.
- Settleable solids (SS) monitoring applies to discharges to HQW, ORW, SA, SB, PNA, or Tr designated waters.
- Total Suspended Solids (TSS) limits specific to industrial sand mines, and to any mine discharging to HQW.
- Report wastewater effluent monitoring data once a year (by March 1st) to DEQ Central Office.
- Report effluent limitation violations to the DEMLR Regional Office within 30 days.
- Effluent turbidity levels above the water quality standard prompt upstream and downstream monitoring.

What has changed from the previous permit?

Some changes specific to Stormwater:

- Reduced BMP inspections (weekly) for active mines; additional allowances for inactive mines that qualify for "dormant status."
- Changes to SPPP Annual Update.
- "Measurable storm event" (any size that results in a discharge) replaces "Representative" event.
- New benchmarks and Tiers specific to turbidity.
- Total Flow and event duration no longer required.
- pH removed from VMA monitoring.

Some changes specific to Wastewater:

- May drop to semi-annual WW monitoring after four quarterly samples that comply with all limitations.
- Turbidity instream monitoring is required if effluent levels above the water quality standard.
- SS monitoring for sensitive waters only (HQW, etc.)
- TSS limits apply to industrial sand mines and HQWs.

Changes from the last permit are detailed in the "Response to Comments and Summary of Changes" Document for the 2015 NCG02 GP on our website.

Frequently Asked Questions

What if my mine is inactive?

The permit makes allowances for **inactive** mines that have suspended all industrial activities and that certify to DEMLR that the site has been stabilized. If approved for "dormant status," these operations qualify for reduced BMP inspections and may be exempted from outfall monitoring by the Regional Engineer.

Do I have to monitor all outfalls?

Yes. However, you may request Representative Outfall Status (ROS). If approved, ROS allows monitoring at fewer outfalls. To request ROS, submit an ROS Request Form to the DEMLR Regional Office. The form is available on our website (below).

Also, the Regional Office may exempt mines with "dormant status" from analytical and/or qualitative monitoring.

What if I sell my business, or the name changes?

You are required to notify DEMLR of those changes in writing, and continuation of permit coverage is subject to the Director's approval. Please submit the Name/Ownership Change form located on our Program website.

What is wastewater, and what is stormwater at a mine site?

Any water contacting an actively mined area, water used to process mined materials, and mine dewatering water are all considered "wastewater." For some mines, "mine dewatering" also means wet pit overflows, and not just pumped-out water. Any stormwater that commingles with these waters is "wastewater." "Stormwater" includes runoff from areas related to mining, processing, or raw material storage areas, such as haul roads or processing plant areas at the mine.

Sometimes the answer is not clear because of how broad the definitions are. For example, N.C. considers runoff from areas that contain overburden only (no mined or processed material), and that does not commingle with wastewater (including runoff from the mine), to be stormwater. If you are unsure about discharges, please contact the DEMLR Regional Office for assistance.

Does a certified lab need to analyze my samples?

Monitoring under NPDES permits must be conducted in accordance with test procedures approved in federal regulations in 40 CFR §136. All labs certified by

North Carolina perform analysis in accordance with those procedures. While N.C. certification requirements do not apply to testing stormwater-only discharges, data gathered under an NPDES permit must still conform to federal requirements. Using a North Carolina certified lab is one way to ensure compliance. A list of certified labs is available from: <http://portal.ncdenr.org/web/wq/lab/cert/>

What if I pull samples for my analytical monitoring, and I'm unable to get a sample or valid results for a parameter?

If this happens, please sample for the missing parameter during the next measureable storm event or wastewater discharge.

If I sample my discharge, do I have to do visual monitoring at the same time?

You may, but it is not necessary under NCG02. Some other general permits require it, however.

What if there is no flow for a period between two samples that exceed a benchmark? Are those consecutive exceedances?

Yes. This scenario still puts you in Tier 2. The new permit is more clear about how the Tier 2 trigger omits periods of no discharge.

What do I do when my permit expires?

Permittees are not required to submit an application for renewal unless directed by the Division. The permittee should continue to abide by this general permit if it expires and renewed coverage has not yet been issued.

Who can help me with questions?

Your questions about stormwater permit requirements can be addressed to the DEMLR Offices:

Asheville Office.....	(828) 296-4500	Washington Office.....	(252) 946-6481
Fayetteville Office.....	(910) 433-3300	Wilmington Office.....	(910) 796-7215
Mooresville Office.....	(704) 663-1699	Winston-Salem Office...	(336) 776-9800
Raleigh Office.....	(919) 791-4200	Central Office.....	(919) 707-9220



Helpful Link:

DEMLR Stormwater Permitting Program:
<http://portal.ncdenr.org/web/lr/stormwater>

Stormwater Discharge Outfall (SDO) No. _____	VMA Outfall?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Is this outfall currently in Tier 2 for any parameter?		Yes <input type="checkbox"/>	No <input type="checkbox"/>
Was this outfall ever in Tier 2 during the past year?		Yes <input type="checkbox"/>	No <input type="checkbox"/>
If this outfall was in Tier 2 last year, was monthly monitoring discontinued?			
Yes, enough consecutive samples below benchmarks to decrease frequency		<input type="checkbox"/>	
Yes, received approval from DEMLR to reduce monitoring frequency		<input type="checkbox"/>	
No, turbidity benchmark exceedances did not require monthly monitoring		<input type="checkbox"/>	
Other _____		<input type="checkbox"/>	

[illegible]

Additional Outfall Attachment (make copies as needed for additional outfalls)

Stormwater Discharge Outfall (SDO) No. _____	VMA Outfall?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Is this outfall currently in Tier 2 for any parameter?		Yes <input type="checkbox"/>	No <input type="checkbox"/>
Was this outfall ever in Tier 2 during the past year?		Yes <input type="checkbox"/>	No <input type="checkbox"/>
If this outfall was in Tier 2 last year, was monthly monitoring discontinued?			
Yes, enough consecutive samples below benchmarks to decrease frequency		<input type="checkbox"/>	
Yes, received approval from DEMLR to reduce monitoring frequency		<input type="checkbox"/>	
No, turbidity benchmark exceedances did not require monthly monitoring		<input type="checkbox"/>	
Other _____		<input type="checkbox"/>	

[illegible]

CERTIFICATION

"I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."

[Required by 40 CFR §122.22]

Signature _____

Date _____

Mail Annual Summary Stormwater DMR to the NCDEQ Central Office:

Note the address is correct – Central Files is housed in DWR (not DEMLR)

N.C. Department of Environmental Quality (DEQ)

Division of Water Resources

Attn: DWR Central Files

1617 Mail Service Center

Raleigh, NC 27699-1617

Central Files Telephone (919) 807-6300

**Questions? Contact DEMLR Stormwater Permitting Staff in the Central Office at:
(919) 707-9220**

SUBMIT TO CENTRAL OFFICE*

Calendar Year

Certificate of Coverage No. **NCG02**

Facility Name: _____

County: _____

Phone Number: () _____

Total no. of outfalls monitored

Certified Laboratory _____ Lab # _____

Lab #

Wastewater (WW) Discharge Outfall No. _____

Is this an industrial sand mine (See 40 CFR §436 Subpart D)? Yes ☐ No ☐

Does this outfall discharge WW to SA waters? Yes ☐ No ☐

Does this outfall discharge WW to SB or PNA waters? Yes ☐ No ☐

Does this outfall discharge WW to HQW or ORW waters? Yes ☐ No ☐

If so, what is the 7Q10 flow rate? or Tidally influenced waters, 7Q10 not available ☐

Does this outfall discharge WW to Trout (Tr) designated waters? Yes ☐ No ☐

Were there any limit violations in the calendar year? Yes ☐ No ☐

Permit Date 10/1/2015 – 9/30/2020

Last Revised 10-2-2015

CERTIFICATION

"I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."

[Required by 40 CFR §122.22]

Signature _____

Date _____

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Note the address is correct – Central Files is housed in DWR (not DEMLR)

N.C. Department of Environmental Quality (DEQ)

Division of Water Resources

Attn: DWR Central Files

1617 Mail Service Center

Raleigh, NC 27699-1617

Central Files Telephone (919) 807-6300

**Questions? Contact DEMLR Stormwater Permitting Staff in the Central Office at:
(919) 707-9220**

BENCHMARK EXCEEDANCE or TIER 2 DISCHARGE MONITORING REPORT (DMR) – STORMWATER**SUBMIT TO REGIONAL OFFICE*****General Permit No. NCG020000**

*Use this form if any stormwater samples have EXCEEDED A BENCHMARK or if the facility is in TIER 2 MONITORING for any parameter (including TIER 2 for Turbidity). Send sample results to the DEMLR Regional Office *within 30 days of receipt from the laboratory*.

Certificate of Coverage No. NCG02 ☐☐☐☐Facility Name: _____ Sample Collection Period: Period 1 ☐ Period 2 ☐ Calendar Year _____

County: _____ For Monthly Monitoring: Month _____

Phone Number: (____) _____ Person Collecting Samples: _____

Certified Laboratory: _____ Lab # _____

_____ Lab # _____

Has this facility had 4 or more benchmark exceedances for any single parameter, at any one SW discharge outfall (SDO)? Yes ☐ No ☐Have you contacted the Regional Office? Yes ☐ No ☐

Whom at the Region did you speak with? _____

Part A: Stormwater Monitoring Requirements (no VMA, see next page for outfalls with VMA)

Outfall No.	Date Sample Collected	Total Rainfall	Is this SDO in Tier 2?	Total Suspended Solids (TSS), mg/l	Settleable Solids, ml/l	Turbidity, NTU	Upstream (U) Turbidity, NTU	Downstream (D) Turbidity, NTU
-	mo/dd/yr or "NO FLOW"	inches	Y/N	100 50 (ORW, HQW, Tr, PNA)	0.1	50 25 (lakes, reservoirs, salt waters) 10 (freshwater Tr designated streams, lakes, and reservoirs)	N/A Water Quality Standard applies	N/A Water Quality Standard applies

Part A: Stormwater Monitoring Requirements (no VMA), cont.

Outfall No.	Date Sample Collected	Total Rainfall	Is this SDO in Tier 2?	Total Suspended Solids (TSS), mg/l	Settleable Solids, ml/l	Turbidity, NTU	Upstream (U) Turbidity, NTU	Downstream (D) Turbidity, NTU
-	mo/dd/yr or "NO FLOW"	inches	Y/N	100 50 (ORW, HQW, Tr, PNA)	0.1	50 25 (lakes, reservoirs, salt waters) 10 (freshwater Tr designated streams, lakes, and reservoirs)	N/A Water Quality Standard applies	N/A Water Quality Standard applies

Part B: Stormwater Monitoring Requirements for SDOs with Vehicle Maintenance Activities (VMA) where facilities use > 55 gallons of new motor oil a month if averaged over the calendar year. NOTE: Other parameters only for outfalls that include both mining activities and VMA.

Outfall No.	Date Sample Collected	Total Rainfall	VMA TSS, mg/l	VMA only Non-polar O&G, mg/l	VMA only New Motor Oil Use (gal/mo.)	If applicable SS, ml/l	If applicable Turbidity, NTU	If applicable Upstream (U) Turbidity, NTU	If applicable Downstream (D) Turbidity, NTU
-	mo/dd/yr or "NOFLOW"	inches	100/50	15	55	0.1	50/25/10	N/A	N/A

CERTIFICATION

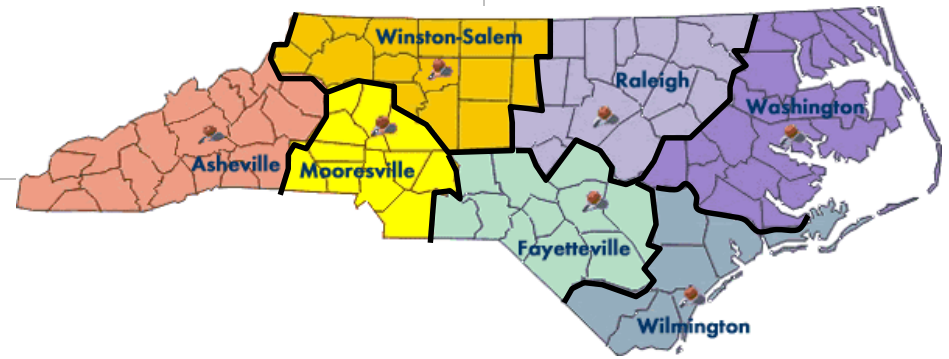
"I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations." *[Required by 40 CFR §122.22]*

Signature _____

Date _____

Mail Benchmark Exceedance/Tier 2 DMR to Your DEMLR Regional Office Land Quality Section:

ASHEVILLE REGIONAL OFFICE 2090 US Highway 70 Swannanoa, NC 28778 (828) 296-4500	FAYETTEVILLE REGIONAL OFFICE 225 Green Street Systel Building Suite 714 Fayetteville, NC 28301-5043 (910) 433-3300	MOORESVILLE REGIONAL OFFICE 610 East Center Avenue/Suite 301 Mooresville, NC 28115 (704) 663-1699
RALEIGH REGIONAL OFFICE 3800 Barrett Drive Raleigh, NC 27609 (919) 791-4200	WASHINGTON REGIONAL OFFICE 943 Washington Square Mall Washington, NC 27889 (252) 946-6481	WILMINGTON REGIONAL OFFICE 127 Cardinal Drive Extension Wilmington, NC 28405-2845 (910) 796-7215
WINSTON-SALEM REGIONAL OFFICE 450 Hanes Mill Road, Suite 300 Winston-Salem, NC 27103 (336) 776-9800	CENTRAL OFFICE Questions for The Central Office Stormwater Permitting Program? (919) 707-9220	



LIMIT VIOLATION DISCHARGE MONITORING REPORT (DMR) – WASTEWATER

SUBMIT TO REGIONAL OFFICE*

General Permit No. NCG020000

*Use this form if any wastewater samples have EXCEEDED A WASTEWATER LIMIT for any parameter.
Send sample results to the DEMLR Regional Office *within 30 days of receipt from the laboratory.*

Certificate of Coverage No. NCG02 ☐☐☐☐

Facility Name: _____ Sample Collection Period: Qtr 1 ☐ Qtr 2 ☐ Qtr 3 ☐ Qtr 4 ☐ Calendar Year _____

County: _____ If Monthly Monitoring: Month _____

Phone Number: (____) _____ Person Collecting Samples: _____

Certified Laboratory: _____ Lab # _____

_____ Lab # _____

Is this an industrial sand mine? Yes ☐ No ☐

Discharge to HQW or ORW waters? Yes ☐ No ☐

Discharge to SA waters? Yes ☐ No ☐

Discharge to Tr (Trout) waters? Yes ☐ No ☐

Discharge to SB or PNA waters? Yes ☐ No ☐

If HQW, what is the 7Q10 flow rate? _____ or Tidal, 7Q10 not available ☐

Wastewater Monitoring Requirements

Outfall No.	Date Sample Collected	Daily Flow Rate, cfs	pH, SU	Total Suspended Solids (TSS), mg/l	Settleable Solids, ml/l <i>if applicable</i>	Discharge Turbidity, NTU	Upstream (U) Turbidity, NTU	Downstream (D) Turbidity, NTU	Fecal Coliform, col/100 ml (SA)
-	mo/dd/yr or "NO FLOW"	HQW or ORW 50% of 7Q10 <i>Indicate NO FLOW if applicable</i>	freshwater 6.0-9.0 saltwater 6.8-8.5	Industrial Sand 25/45 HQW or ORW 20/30 HQW or ORW and Tr or PNA 10/15	HQW, ORW, SA, SB, PNA, or any Trout 0.1/0.2	No Limit Circle Water Quality Standard that applies: 50/25/10	N/A Water Quality Standard applies	N/A Water Quality Standard applies	N/A

Wastewater Monitoring Requirements, cont.

[illegible]

CERTIFICATION

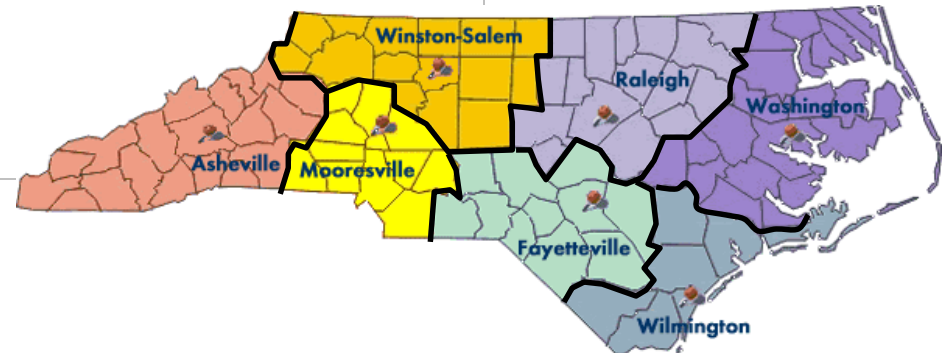
"I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations." *[Required by 40 CFR §122.22]*

Signature _____

Date _____

Mail Limit Violation DMR to Your DEMLR Regional Office Land Quality Section:

ASHEVILLE REGIONAL OFFICE 2090 US Highway 70 Swannanoa, NC 28778 (828) 296-4500	FAYETTEVILLE REGIONAL OFFICE 225 Green Street Systel Building Suite 714 Fayetteville, NC 28301-5043 (910) 433-3300	MOORESVILLE REGIONAL OFFICE 610 East Center Avenue/Suite 301 Mooresville, NC 28115 (704) 663-1699
RALEIGH REGIONAL OFFICE 3800 Barrett Drive Raleigh, NC 27609 (919) 791-4200	WASHINGTON REGIONAL OFFICE 943 Washington Square Mall Washington, NC 27889 (252) 946-6481	WILMINGTON REGIONAL OFFICE 127 Cardinal Drive Extension Wilmington, NC 28405-2845 (910) 796-7215
WINSTON-SALEM REGIONAL OFFICE 450 Hanes Mill Road, Suite 300 Winston-Salem, NC 27103 (336) 776-9800	CENTRAL OFFICE Questions for The Central Office Stormwater Permitting Program? (919) 707-9220	





Stormwater Discharge Outfall (SDO) Qualitative Monitoring Report

For guidance on filling out this form, please visit: <http://portal.ncdenr.org/web/lr/npdes-stormwater/>

Permit No.: N/C/_/_/_/_/_/_/_/_ or Certificate of Coverage No.: N/C/G/_/_/_/_/_/_/_/_

Facility Name: _____

County: _____ Phone No. _____

Inspector: _____

Date of Inspection: _____

Time of Inspection: _____

Total Event Precipitation (inches): _____

Was this a "Representative Storm Event" or "Measureable Storm Event" as defined by the permit?
(See information below.)

☐ Yes ☐ No

Please verify whether Qualitative Monitoring must be performed during a "representative storm event" or "measureable storm event" (requirements vary, depending on the permit).

Qualitative monitoring requirements vary. Most permits require qualitative monitoring to be performed during a "representative storm event" or during a "measureable storm event." However, some permits do not have this requirement. Please refer to these definitions, if applicable.

A **"representative storm event"** is a storm event that measures greater than 0.1 inches of rainfall and that is preceded by at least 72 hours (3 days) in which no storm event measuring greater than 0.1 inches has occurred. A single storm event may contain up to 10 consecutive hours of no precipitation.

A **"measurable storm event"** is a storm event that results in **an actual discharge** from the permitted site outfall. The previous measurable storm event must have been at least 72 hours prior. The 72-hour storm interval does not apply if the permittee is able to document that a shorter interval is representative for local storm events during the sampling period, and the permittee obtains approval from the local DWQ Regional Office.

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

(Signature of Permittee or Designee)

1. Outfall Description:

Outfall No. _____ Structure (pipe, ditch, etc.) _____

Receiving Stream: _____

Describe the industrial activities that occur within the outfall drainage area: _____

2. Color: Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: _____

3. Odor: Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.): _____

4. Clarity: Choose the number which best describes the clarity of the discharge, where 1 is clear and 5 is very cloudy:

1 2 3 4 5

5. Floating Solids: Choose the number which best describes the amount of floating solids in the stormwater discharge, where 1 is no solids and 5 is the surface covered with floating solids:

1 2 3 4 5

6. Suspended Solids: Choose the number which best describes the amount of suspended solids in the stormwater discharge, where 1 is no solids and 5 is extremely muddy:

1 2 3 4 5

7. Is there any **foam** in the stormwater discharge? Yes No

8. Is there an **oil sheen** in the stormwater discharge? Yes No

9. Is there evidence of **erosion or deposition** at the outfall? Yes No

10. Other Obvious Indicators of Stormwater Pollution:

List and describe _____

Note: Low clarity, high solids, and/or the presence of foam, oil sheen, or erosion/deposition may be indicative of pollutant exposure. These conditions warrant further investigation.



Stormwater Discharge Outfall (SDO) Qualitative Monitoring Report

For guidance on filling out this form, please visit: <http://portal.ncdenr.org/web/lr/npdes-stormwater/>

Permit No.: N/C/_/_/_/_/_/_/_/_ or Certificate of Coverage No.: N/C/G/_/_/_/_/_/_/_/_

Facility Name: _____

County: _____ Phone No. _____

Inspector: _____

Date of Inspection: _____

Time of Inspection: _____

Total Event Precipitation (inches): _____

Was this a "Representative Storm Event" or "Measureable Storm Event" as defined by the permit?
(See information below.)

☐ Yes ☐ No

Please verify whether Qualitative Monitoring must be performed during a "representative storm event" or "measureable storm event" (requirements vary, depending on the permit).

Qualitative monitoring requirements vary. Most permits require qualitative monitoring to be performed during a "representative storm event" or during a "measureable storm event." However, some permits do not have this requirement. Please refer to these definitions, if applicable.

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1. Outfall Description:

Outfall No. _____ Structure (pipe, ditch, etc.) _____

Receiving Stream: _____

Describe the industrial activities that occur within the outfall drainage area: _____

2. Color: Describe the color of the discharge using basic colors (red, brown, blue, etc.) and tint (light, medium, dark) as descriptors: _____

3. Odor: Describe any distinct odors that the discharge may have (i.e., smells strongly of oil, weak chlorine odor, etc.): _____

4. Clarity: Choose the number which best describes the clarity of the discharge, where 1 is clear and 5 is very cloudy:

1 2 3 4 5

5. Floating Solids: Choose the number which best describes the amount of floating solids in the stormwater discharge, where 1 is no solids and 5 is the surface covered with floating solids:

1 2 3 4 5

6. Suspended Solids: Choose the number which best describes the amount of suspended solids in the stormwater discharge, where 1 is no solids and 5 is extremely muddy:

1 2 3 4 5

7. Is there any **foam** in the stormwater discharge? Yes No

8. Is there an **oil sheen** in the stormwater discharge? Yes No

9. Is there evidence of **erosion or deposition** at the outfall? Yes No

10. Other Obvious Indicators of Stormwater Pollution:

List and describe _____

Note: Low clarity, high solids, and/or the presence of foam, oil sheen, or erosion/deposition may be indicative of pollutant exposure. These conditions warrant further investigation.